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1936 Index—Electrical Engineering and Transactions

This multientry annual reference index covers comprehensively the entire text content of the 12 issues of ELECTRICAL ENGINEERING published during 1936 and of the identical content of the 1936 AIEE TRANSACTIONS, volume 55.

Discussions have received particular attention and a special effort has been made to provide effective correlation between references to technical papers and to all published discussions of those papers. In this connection it is of importance to note that discussions of many technical papers published during the latter half of 1935 were published in the early part of 1936, and hence appear in this current index. Likewise, many discussions of the later 1936 papers will be published early in 1937, and consequently will not be found among the references contained in this current index.

For convenience in use, this index is subdivided into the following general divisions:

1. Technical subjects.
2. Authors, including the writers of discussions.
3. News items pertaining to Institute activities.
4. News items of a general nature.
5. Biographical (personal and obituary) items.

Division I—Technical Subject Index

Advanced Course in Engineering, An. Stevenson, Howard. (March 1935, p. 265–8)
Disc. and closure 181
Algebra Applied to 3-Phase Circuits, Dyadic. Sah 876–82
Algebra in Transformer Circuits, Tensor. Bewley 1214–9
All-Service Vehicle, Development of the. Schreiber 236–40
A-C Characteristics of Dielectrics—II. Banos 1329–37
A-C Electrolytic Capacitor, The. Lomont, Dunlenvey. (Oct. 1935, p. 1058–63)
Disc 287
A-C Machines, Operational Solution of. Miller, Weil 1191–1200
(A-C Machines) Self-Excitation of a Frequency Converter. Hess. (Dec. 1935, p. 1359–66)
Disc. and closure 894
A-C Rotating Machines, Tests on Lightning Protection for. Hunter 137–44
Disc. and closure 1035
A-C System 50th Anniversary (See Also, Under "News of AIEE Activities")
Early History of the A-C System in America. Cheaney, Scott 228–35
Alternators, Insulation for High Voltage. Laffoon, Calvert. (June 1935, p. 624–31)
Disc. and closure 177
Ammeter, The Compensated Thermocouple. Goodwin 23–33
Disc. and closure 407
Amplification Loci of Resistance-Capacitance Coupled Amplifier. Seletsky 1364–71
Analysis of Electrical Engineering Graduates, An 959–3
Analysis of Rectifier Filter Circuits. Stout. (Sept. 1935, p. 977–84)
Disc. and closure 280
Analysis of the Shaded Pole Motor, An. Trickey 1007–14
Analysis of Unsymmetrical Machines. Lyon, Kingsley 471–6
Disc 1247
"Angle Switching" of Synchronous Motors. Shutt, Dawson. (Nov. 1935, p. 1191–5)
Disc. and closure 895
Anniversaries. Meyer 227
Apparatus for Diesel Cars and Locomotives, Electrical. Smith 335–41
Disc 1385
Arc Furnaces, Power Company Service to. Clark. (Nov. 1935, p. 1173–8)
Disc 412
Armature Leakage Reactance, Test Values of. Rogers. (July 1935, p. 700–05)
Disc 284
Armature Resistance of Synchronous Machines, Tests on. Robertson. (July 1935, p. 705–09)
Disc. and closure 283
Arresters, Discharge Currents in Distribution. McEachron, McMorris. (Dec. 1935, p. 1395–9)
Disc. and closure 814
Associates, Members, and Fellows. Meyer 571
Atomic Nucleus, Exploring the. Dushman 760–7
Audio Transformers, High Power. Peters 34–6
Disc. and closure 889

Page Allocations by Issues

January	1–128
February	129–224
March	225–320
April	321–432
May	433–568
June	569–756
July	757–852
August	853–948
September	949–1056
October	1057–1164
November	1165–1296
December	1297–1428

Automatic Boosters on Distribution Circuits. Olmsted 1083–96
Automatic Control for Mercury Arc Rectifiers. Bany, Reagan 100–09
Disc 893
Automatic Load Control, Remote Metering and. Logan 40–7
Disc. and closure 891
(Automatic Stations) An Electronic Regulator for D-C Generators. Gulliksen 873–5
(Automatic Stations) Automatic Control for Mercury Arc Rectifiers. Bany, Reagan 100–09
Disc 893
(Automatic Stations) Electrical Equipment for Waterworks Systems. Canariis 36–40
Disc. and closure 1039
(Automatic Stations) Supervisory Control and Remote Metering. Duer 70–5
Disc 890

B

Battery Charging, Storage. Woodbridge. (May 1935, p. 516–25)
Disc. and closure 190
Better Visibility Needed on Highways at Night. Wood 614–18
Bipolar Induction Meter, Torque in a. Morton 354–8
Disc 893
"Biway" System of Electric Platforms for Mass Transit, The. Storer. (Dec. 1935, p. 1340–7)
Disc. and closure 822
Board of Directors, Report of the 795–808
Boosters on Distribution Circuits, Automatic. Olmsted 1083–96
Boulder Dam Disconnecting Switches, 287-Kv. Bowie, Garman 582–09
(Boulder Dam) Hydrogen Cooling of Rotating Machines. Laffoon 703–9
Boulder Dam Line, Circuit Breakers for. Prince. (Apr. 1935, p. 366–72)
Disc. and closure 196, 269
Boulder Dam Line, Circuit Breakers for. Wilcox, Leeds 626–35
Disc. and closure 1250
Boulder Dam-Los Angeles Lines, Engineering Features of the. Scattergood. (May 1935, p. 494–512)
Disc. and closure 200, 282
(Boulder Dam) Power Transformers for 287.5-Kv Service. James, Vogel 438–44

(Boulder Dam) Power Transformers With Concentric Windings. Paluev..... 649–59
Disc. and closure..... 1272
(Boulder Dam) Special Tests on Impulse Circuit Breakers. Skeats.. 710–17
Breakdown Curve for Solid Insulation. Montsinger. (Dec. 1935, p. 1300–01)
Disc. and closure..... 399
Breakdown in Vacuum, Effect of Total Voltage on. Anderson. (Dec. 1935, p. 1315–20)
Disc. and closure..... 830
Breakdown Voltage, Effect of Ultraviolet on. Nord. (Sept. 1935, p. 955–8)
Disc. and closure..... 272
Breaker and Voltage Recovery Tests, Oil Circuit. Poitras, Kuehni, Skeats. (Feb. 1935, p. 170–8)
Disc. and closure..... 193, 269
Breaker Performance Studied by Cathode Ray Oscillograms. Van Sickle. (Feb. 1935, p. 178–84)
Disc. and closure..... 194
Brush Jumping, Flashing of Railway Motors Caused by. Hellmund. (Nov. 1935, p. 1178–85)
Disc. and closure..... 812
Brush Wear, Electrical. Hessler. (Oct. 1935, p. 1050–4)
Disc. and closure..... 406

C

Cable and Damper Vibration Studies. Pipes..... 600–14
Disc. and closure..... 1149
Cable Code Translator System, A. Connery. (Nov. 1935, p. 1162–6)
Disc. and closure..... 819
Cable Insulation, A Criterion of Quality of. Wyatt, Spring. (Apr. 1935, p. 417–21)
Disc. and closure..... 204
Cable Insulation, Studies of Stability of. Halperin, Betzer..... 1074–82
Cable Lengths, Crossing the St. Lawrence With Unstressed. Mace, Thicke..... 164–7
Cable Vibration—Methods of Measurement. Carroll, Koontz..... 490–7
Disc. and closure..... 1147
Cables and Dampers—I, Vibration of. Sturm..... 455–65
Disc. and closure..... 1147
Cables and Dampers—II, Vibration of. Sturm..... 673–88
Disc. and closure..... 1147
Cables, Economical Loading of Underground. Church. (Nov. 1935, p. 1166–72)
Disc. and closure..... 396
Cables, Impedance Measurements on Underground. Webb, Mans..... 359–65
Disc. and closure..... 1138
Calculations for Coreless Induction Furnaces. Dwight, Bagai. (March 1935, p. 312–15)
Disc. and closure..... 187
Calculations of Resistances to Ground. Dwight..... 1319–28
Calibration of Microphones, The. (Com. rept.)..... 241–5
Calorimetric Measurement of Dielectric Loss. Race, Leonard..... 1347–56
Capacitor, A New Carrier-Current Coupling. Eby. (Aug. 1935, p. 848–52)
Disc. and closure..... 281
Capacitor, The A-C Electrolytic. Lomont, Dunleavey. (Oct. 1935, p. 1058–63)
Disc..... 297
Carrier-Current Coupling Capacitor, A New. Eby. (Aug. 1935, p. 848–52)
Disc. and closure..... 281
Carrier Pilot Relay System, A Faster. Traver, Bancker..... 688–96
Disc..... 1252
Carrier Relaying and Rapid Reclosing at 110 Kv. Pierce, Powers, Stewart, Heberlein..... 1120–9
Cars and Locomotives, Electrical Apparatus for Diesel. Smith..... 335–41
Disc..... 1385
Cathode Insulation Performance, Heater-. Klemperer..... 981–5
Cathode Ray Oscillograms, Breaker Performance Studied by. Van Sickle. (Feb. 1935, p. 178–84)
Disc. and closure..... 194
Cathode Ray Oscillograph for Observing 2 Waves, A. George, Heim, Mayer, Roys. (Oct. 1935, p. 1095–1100)
Disc. and closure..... 270
(Cathode Ray Oscillographs) Electronic Transient Visualizers. Reich..... 1314–18
Central Station Industry, The Influence of James Watt on the. Orrok..... 358
Charges About a Conductor, Fields and. Hoover..... 448–54
Disc. and closure..... 1269
Circuit Breakers for Boulder Dam Line. Prince. (Apr. 1935, p. 366–72)
Disc. and closure..... 196, 269
Circuit Breakers for Boulder Dam Line. Wilcox, Leeds..... 626–35
Disc. and closure..... 1250
Circuit Breakers for Steel Mill Service, D-C. Deans. (June 1935, p. 594–8)
Disc..... 170
Circuit Breakers, Special Tests on Impulse. Skeats..... 710–17
Disc. and closure..... 1256
Circuit Recovery Rates, The Determination of. Boehne. (May 1935, p. 530–9)
Disc. and closure..... 191, 269
Circuits, Analysis of Rectifier Filter. Stout. (Sept. 1935, p. 977–84)
Disc. and closure..... 280
Circuits, Complex Vectors in 3-Phase. Sah..... 1356–64
Circuits, Current and Voltage Loci in 3-Phase Delta-Delta. Seletzky, Sibila..... 476–9
Circuits, Current Harmonics in Nonlinear Resistance. Owens. (Oct. 1935, p. 1055–7)
Disc. and closure..... 837
Circuits, Dyadic Algebra Applied to 3-Phase. Sah..... 876–82
Circuits, Equivalent, 2 Coupled Circuits. Balsbaugh, Douglass, Gow, Leal..... 366–71
Disc..... 1037
Circuits, Operational Solution of Electric. Brunetti..... 158–64
Circuits, Steady State Solution of Saturated. Beckwith. (July 1935, p. 728–34)
Disc. and closure..... 282
Circuits, Tensor Algebra in Transformer. Bewley..... 1214–19
Circuits, Tensor Analysis of Multielectrode-Tube. Kron..... 1220–42
Cobalt, Magnetic Alloys of Iron, Nickel, and. Elmen. (Dec. 1935, p. 1292–9)
Disc. and closure..... 887
Code Translator System, A. Connery. (Nov. 1935, p. 1162–6)
Disc. and closure..... 819
Cold-Cathode Arc-Discharge Tube, A. Germeshausen, Edgerton..... 790–4; 809
"Comet"—A Diesel Electric Unit Train, The. Candee. (Nov. 1935, p. 1240–5)
Disc. and closure..... 819
(Com. rept.) Lightning Protection for Transformers..... 53–6
Disc..... 918
(Com. rept.) Modernization of Transmission Lines..... 12–8
Disc..... 919
(Com. rept.) Progress in the Production and Application of Light..... 1111–20
(Com. rept.) Revised Sphere-Gap Spark-Over Voltages..... 783
(Com. rept.) The Calibration of Microphones..... 241–5
(Communication) A Cable Code Translator System. Connery. (Nov. 1935, p. 1162–6)
Disc. and closure..... 819
(Communication) A New Carrier-Current Coupling Capacitor. Eby. (Aug. 1935, p. 848–52)
Disc. and closure..... 281
(Communication) A New Telephotograph System. Reynolds..... 996–1007
(Communication) A Transmission System for Teletypewriter Exchange Service. Pierce, Bemis.. 961–70
(Communication) Calorimetric Measurement of Dielectric Loss. Race, Leonard..... 1347–56
(Communication) Dial Switching of Connecticut Toll Calls. Robb, Millard, McPhee..... 773–83
(Communication) Earth Resistivity and Geological Structure. Card. (Nov. 1935, p. 1153–61)
Disc..... 836
Communication Equipment, Silicon Steel in. Crawford, Thomas. (Dec. 1935, p. 1348–53)
Disc. and closure..... 883
(Communication) Fields Caused by Remote Thunderstorms. Gould. 575–82
Disc. and closure..... 1271
(Communication) Heater-Cathode Insulation Performance. Klemperer..... 981–5
(Communication) High Power Audio Transformers. Peters..... 34–6
Disc. and closure..... 889
Communication, Locomotive to Caboose Radio. Ellis..... 109–13
Disc. and closure..... 825
(Communication) Magnetic Alloys of Iron, Nickel, and Cobalt, Elmen. (Dec. 1935, p. 1292–9)
Disc. and closure..... 887
(Communication) Measurement of Telephone Noise and Power Wave Shape. Barstow, Blye, Kent. (Dec. 1935, p. 1307–14)
Disc. and closure..... 818
Communication, Neutralizing Transformer to Protect Power Station Communication. George, Honaman, Lockrow, Schwartz..... 524–9
(Communication) Permanent Magnet Materials. Williams..... 19–23
Disc..... 885
(Communication) Present Status of Ferromagnetic Theory. Bozorth. (Nov. 1935, p. 1251–61)
Disc. and closure..... 884
(Communication) Switchboards and Signaling Facilities of the Teletypewriter Exchange System. Knowlton, Locke, Singer..... 1015–25
(Communication) The Calibration of Microphones. (Com. rept.)..... 241–5
(Communication) The Hawaiian Radiotelephone System. Harrington, Hansell. (Aug. 1935, p. 822–8)
Disc. and closure..... 290
Communication Transformers, Improvements in. Gans, Laird. (Dec. 1935, p. 1367–73)
Disc. and closure..... 890
Commutated Stationary Conversion, Vibratorily. Southgate. (Nov. 1935, p. 1213–21)
Disc. and closure..... 404

(Commutation) Flashing of Railway Motors Caused by Brush Jumping. Hellmund. (Nov. 1935, p. 1178–85)
Disc. and closure ... 812
(Commutation) Sliding Contacts—Electrical Characteristics. Baker ... 94–100
Disc. and closure ... 821
Compensated Thermocouple, Ammeter, The. Goodwin ... 23–33
Disc. and closure ... 407
Complex Vectors in 3-Phase Circuits. Sah ... 1356–64
Compounded Rectifiers, Self-Regulated. Goodhue, Power ... 1200–05
Concentric Windings, Power Transformers With. Paluev ... 649–59
Disc. and closure ... 1272
Conductor, Fields and Charges About a. Hoover ... 448–54
Disc. and closure ... 1269
Conductor Vibration, Laboratory Studies of. Carroll ... 543–7
Disc. and closure ... 1148
Conductors, Currents and Potentials Along Leaky Ground-Return. Sunde ... 1338–46
Connecticut Toll Calls, Dial Switching of. Robb, Millard, McPhee ... 773–83
Contacts—Electrical Characteristics, Sliding. Baker ... 94–100
Disc. and closure ... 821
(Control) A New Carrier-Current Coupling Capacitor. Eby. (Aug. 1935, p. 849–52)
Disc. and closure ... 281
(Control) "Angle Switching" of Synchronous Motors. Shutt, Dawson. (Nov. 1935, p. 1191–5)
Disc. and closure ... 895
Control Gap for Lightning Protection, The. Higgins, Rorden ... 1029–34
Control for Mercury Arc Rectifiers, Automatic. Bany, Reagan ... 100–09
Disc ... 893
Control, Remote Metering and Automatic Load. Logan ... 40–7
Disc. and closure ... 891
Conversion, Vibratorily Commutated Stationary. Southgate. (Nov. 1935, p. 1213–21)
Disc. and closure ... 404
Converter, Self-Excitation of a Frequency. Hess. (Dec. 1935, p. 1359–66)
Disc. and closure ... 894
Cooling, Hydrogen—With Near-Critical Velocities. Penney ... 530–4
Disc. and closure ... 1248
Corona Losses at 230 Kv With One Conductor Grounded. Carroll, Simmons. (Aug. 1935, p. 846–7)
Disc ... 906
Coupling Capacitor, A New Carrier-Current. Eby. (Aug. 1935, p. 484–52)
Disc. and closure ... 281
Criterion of Quality of Cable Insulation, A. Wyatt, Spring. (Apr. 1935, p. 417–21)
Disc. and closure ... 204
Crossing the St. Lawrence With Unstressed Cable Lengths. Mace, Thicke ... 164–7
Letter ... 939
Current and Voltage Loci in 3-Phase Delta-Delta Circuits. Seletsky, Sibila ... 476–9
Current Harmonics in Nonlinear Resistance Circuits. Owens. (Oct. 1935, p. 1055–7)
Disc. and closure ... 837
Currents and Potentials Along Leaky Ground - Return Conductors. Sunde ... 1338–46

D

Definitions of Power and Related Quantities. Curtis, Silsbee. Apr. (1935, p. 394–404; disc. Oct. 1935, p. 1120)
Disc. and closure ... 182
Damper Vibration Studies, Cable and Pipes ... 600–14
Disc. and closure ... 1149
Dampers—I, Vibration of Cables and. Sturm ... 455–65
Disc. and closure ... 1147
Dampers—II, Vibration of Cables and. Sturm ... 673–88
Disc. and closure ... 1147
Design and Operation of Huntley Station No. 2. Cushing. (June 1935, p. 632–45; disc. Sept. 1935, p. 996)
Disc. and closure ... 172
Determination of Circuit Recovery Rates. Boehne. (May 1935, p. 530–9)
Disc. and closure ... 191, 269
Development of the All-Service Vehicle. Schreiber ... 236–40
Developments in the Steel Industry, Electrical. Wright ... 1168–73
Dial Switching of Connecticut Toll Calls. Robb, Millard, McPhee ... 773–83
Dielectric Loss, Calorimetric Measurement of. Race, Leonard ... 1347–56
Dielectric Research, Recent Progress in. Whitehead ... 1180–5
(Dielectric) Two Methods of Mapping Flux Lines. Godsey. (Oct. 1935, p. 1032–6)
Disc. and closure ... 826
(Dielectrics) Studies of Stability of Cable Insulation. Halperin, Betzer ... 1074–82
Dielectrics—II, A-C Characteristics of. Banos ... 1329–37
Diesel Cars and Locomotives, Electrical Apparatus for. Smith ... 335–41
Disc ... 1385
Diesel Electric Motive Power for Railroads. Candee. (Aug. 1935, p. 863–8)
Disc. and closure ... 294
Diesel Electric Unit Train, The "Comet." Candee. (Nov. 1935, p. 1240–45)
Disc. and closure ... 819
D-C Braking of Induction Motors. Harrell, Hough. (May 1935, p. 488–93)
Disc. and closure ... 167
D-C Circuit Breakers for Steel Mill Service. Deans. (June 1935, p. 594–8)
Disc ... 170
D-C Controlled Voltage Regulator, A. Odessey ... 956–60
Directors, Report of the Board of ... 795–808
Discharge Currents in Distribution Arresters. McEachron, McMorris. (Dec. 1935, p. 1395–99)
Disc. and closure ... 814
Disconnecting Switches, 287-Kv Boulder Dam. Bowie, Garman ... 582–9
Distance Ground Relay, A New. Goldsborough, Smith ... 697–703
Disc. and closure ... 1255
Distance Relays, Performance of. Calabrese ... 660–72
Disc. and closure ... 1254
(Distribution) A Criterion of Quality of Cable Insulation. Wyatt, Spring. (Apr. 1935, p. 417–21)
Disc. and closure ... 204
(Distribution) A New Carrier-Current Coupling Capacitor. Eby. (Aug. 1935, p. 484–52)
Disc. and closure ... 281
(Distribution) Cable and Damper Vibration Studies. Pipes ... 600–14
Disc. and closure ... 1149
(Distribution) Cable Vibration—Methods Measurement. Carroll, Koontz ... 490–7
Disc. and closure ... 1147
(Distribution) Calculations of Resistances to Ground. Dwight ... 1319–28
(Distribution) Carrier Relaying and Rapid Reclosing at 110 Kv. Pierce, Powers, Stewart, Heberlein ... 1120–9
(Distribution) Circuit Breakers for Boulder Dam Line. Wilcox, Leeds ... 628–35
Disc. and closure ... 1250
Distribution Circuits, Automatic Boosters on. Olmsted ... 1083–96
(Distribution) Corona Losses at 230 Kv With One Conductor Grounded. Carroll, Simmons. (Aug. 1935, p. 846–7)
Disc ... 906
(Distribution) Crossing the St. Lawrence With Unstressed Cable Lengths. Thicke, Mace ... 164–7
Distribution, Discharge Currents in. McEachron, McMorris. (Dec. 1935, p. 1395–9)
Disc. and closure ... 814
(Distribution) Economical Loading of Underground Cables. Church. (Nov. 1935, p. 1166–72)
Disc. and closure ... 396
(Distribution) Engineering Features of the Boulder Dam-Los Angeles Lines. Scattergood. (May 1935, p. 494–512)
Disc. and closure ... 200, 282
(Distribution) Equivalent Circuits—2 Coupled Circuits. Balsbaugh, Douglass, Gow, Leal ... 366–71
Disc ... 1037
(Distribution) Experiences With a Modern Relay System. Gerell ... 1130–6
(Distribution) Fault and Out-of-Step Protection of Lines. Braley, Harvey. (Feb. 1935, p. 189–200)
Disc. and closure ... 197
(Distribution) Fields and Charges About a Conductor. Hoover ... 448–54
Disc. and closure ... 1269
(Distribution) Flashovers on Transmission Lines. Bewley ... 349–54
Disc. and closure ... 1136
(Distribution) Impedance Measurements on Underground Cables. Webb, Mans ... 359–65
Disc. and closure ... 1138
(Distribution) Laboratory Studies of Conductor Vibration. Carroll ... 543–7
Disc. and closure ... 1148
(Distribution) Lightning Currents in Field and Laboratory. Bellaschi. (Aug. 1935, p. 837–43)
Disc. and closure ... 393
(Distribution) Lightning Investigation on a 220-Kv System—II. Bell ... 1306–13
(Distribution) Lightning Investigation on Transmission Lines. Lewis, Foust. (Sept. 1935, p. 934–42)
Disc. and closure ... 274
(Distribution) Modernization of Relay Systems. Myller, Turner. 56–62
Disc ... 922
(Distribution) Modernization of Transmission Lines. (Com. rept.) 12–18
Disc ... 919
(Distribution) Porcelain for High Voltage Insulators. Rowland ... 618–26
Disc. and closure ... 1142
(Distribution) Power Company Service to Arc Furnaces. Clark. (Nov. 1935, p. 1173–8)
Disc ... 412
(Distribution) Power Transformers for 287.5-Kv Service. James, Vogel. 438–44
Disc ... 1274
(Distribution) Remote Metering and Automatic Load Control. Logan 40–7
Disc. and closure ... 891
(Distribution) Resolution of Surges Into Multivelocity Components. Bewley. (Nov. 1935, p. 1199–1903)
Disc. and closure ... 903
(Distribution) Sinusoidal Traveling Waves. Weber, Kulman ... 245–51

(Distribution) Special Tests on Impulse Circuit Breakers. Skeats.. 710–17
Disc. and closure.. 1256
(Distribution) Steady State Solution of Saturated Circuits. Beckwith. (July 1935, p. 728–34)
Disc. and closure.. 282
(Distribution) Studies of Stability of Cable Insulation. Halperin, Betser.. 1074–82
Distribution System, Lightning Investigations on a. Halperin, Grosser.. 63–70
Disc. and closure.. 903
Distribution Systems, Modernization of Power. Seelye.. 75–84
Disc. and closure.. 914
(Distribution) Tests on Oil Impregnated Paper. Race.. 590–9
Disc. and closure.. 1140
Distribution Transformer Lightning Protection Practices. Smith.. 47–53
Disc. and closure.. 911
Distribution Transformers, Lightning Protection of. Flanigen. (Dec. 1935, p. 1400–05)
Disc. and closure.. 909
(Distribution) 287-Kv Boulder Dam Disconnecting Switches. Bowie, Garman.. 582–9
(Distribution) Vibration of Cables and Dampers—I. Sturm.. 455–65
Disc. and closure.. 1147
(Distribution) Vibration of Cables and Dampers—II. Sturm.. 673–88
Disc. and closure.. 1147
Disturbance Duration Recorder, A. Frier.. 1025–8
Dyadic Algebra Applied to 3-Phase Circuits. Sah.. 876–82
Letter.. 1287

E

Early History of the A-C System in America. Chesney, Scott.. 228–35
Earth Resistivity and Geological Structure. Card. (Nov. 1935, p. 1153–61)
Disc.. 836
Economical Loading of Underground Cables. Church. (Nov. 1935, p. 1166–72)
Disc. and closure.. 396
(Education) An Advanced Course in Engineering. Stevenson, Howard. (March 1935, p. 265–8)
Disc. and closure.. 181
(Education) An Analysis of Electrical Engineering Graduates.. 952–3
(Education) Exploring the Atomic Nucleus. Dushman.. 760–7
Education—Opinions and Influencing Factors, Engineering. King, Eshbach.. 730–4
Disc. and closure.. 1146
Education, Professional Aspects of Engineering.. 863–76
Letter.. 1045
(Education) Research and Social Progress. Kettering.. 324–8
Education, The New Epoch in Engineering. Williams.. 132–6
(Education) The Young Engineer Under Changing Conditions. Hellmund.. 329–34
Disc. and closure.. 1151
(Education) "What Is Electricity?" Heyl.. 4–11
(Education) What's Next in Science? Compton.. 436–7
(Education) Why the Engineer? Durand.. 1301–03
Effect of Electric Shock on the Heart. Ferris, King, Spence, Williams.. 498–515
Disc. and closure.. 1263
Effect of Total Voltage on Breakdown in Vacuum. Anderson. (Dec. 1935, p. 1315–20)
Disc. and closure.. 830
Effect of Ultraviolet on Breakdown Voltage. Nord. (Sept. 1935, p. 955–8)
Disc. and closure.. 272
Effective Co-ordination. Meyer.. 131
Effective Organization. Meyer.. 855–6
Electric Platforms for Mass Transit, The "Biway" System of. Storer. (Dec. 1935, p. 1340–7)
Disc. and closure.. 822
Electric Power Equipment for Steel Plants. Wright. (May 1935, p. 481–5)
Disc. and closure.. 170
Electric Shock. (See Shock)
Electric Welding. (See Welding)
Electrical Apparatus for Diesel Cars and Locomotives. Smith.. 335–41
Disc.. 1385
Electrical Brush Wear. Hessler. (Oct. 1935, p. 1050–4)
Disc. and closure.. 406
Electrical Developments in the Steel Industry. Wright.. 1168–73
Electrical Equipment for Waterworks Systems. Canaris.. 36–40
Disc. and closure.. 1039
Electrical Features of the Texas Centennial Central Exposition. Fies. 1060–74
(Electrical Machinery) A D-C Controlled Voltage Regulator. Odessey.. 956–60
(Electrical Machinery) A Static Thermionic Tube Frequency Changer. Schmidt, Griffith. (Oct. 1935, p. 1063–7)
Disc. and closure.. 407
(Electrical Machinery) An Analysis of the Shaded Pole Motor. Trickey. 1007–14
(Electrical Machinery) An Exact Formula for Transformer Regulation. Clem.. 466–71
Disc. and closure.. 1274
(Electrical Machinery) Analysis of Unsymmetrical Machines. Lyon, Kingsley.. 471–6
Disc.. 1247
(Electrical Machinery) "Angle Switching" of Synchronous Motors. Shutt, Dawson. (Nov. 1935, p. 1191–5)
Disc. and closure.. 895
(Electrical Machinery) Breakdown Curve for Solid Insulation. Montainger. (Dec. 1935, p. 1300–01)
Disc. and closure.. 399
(Electrical Machinery) Electrical Brush Wear. Hessler. (Oct. 1935, p. 1050–4)
Disc. and closure.. 406
(Electrical Machinery) Flashing of Railway Motors Caused by Brush Jumping. Hellmund. (Nov. 1935, p. 1178–85)
Disc. and closure.. 812
(Electrical Machinery) Frequency Tripling Transformers. Cantwell 784–90
Disc.. 1039
(Electrical Machinery) Hydrogen Cooling of Rotating Machines. Laffoon.. 703–9
Disc.. 1243
(Electrical Machinery) Hydrogen Cooling—With Near-Critical Velocities. Penney.. 530–4
Disc. and closure.. 1248
(Electrical Machinery) Induction Motor Resistance Ring Width. Trickey.. 144–50
(Electrical Machinery) Induction Motors on Unbalanced Voltages. Reed, Koopman.. 1206–13
(Electrical Machinery) Induction Motors Under Unbalanced Conditions. Lunn.. 387–93
(Electrical Machinery) Inspection and Tests of Explosion-Proof Motors. Nuckolls.. 151–8
(Electrical Machinery) Insulation for High Voltage Alternators. Laffoon, Calvert. (June 1935, p. 624–31)
Disc. and closure.. 177
(Electrical Machinery) Load Losses in Salient Pole Synchronous Machines. Pollard. (Dec. 1935, p. 1332–40)
Disc.. 809
(Electrical Machinery) Magnetic Fields in Machinery Windings. Douglas. (Sept. 1935, p. 959–66)
Disc. and closure.. 287
(Electrical Machinery) Negative-Sequence Reactance of Synchronous Machines. Thomas.. 1378–85
(Electrical Machinery) Operational Solution of A-C Machines. Miller, Weil.. 1191–1200
(Electrical Machinery) Overrefined Oils in Power Transformers. Ford 371–5
(Electrical Machinery) Power Transformers for 287.5-Kv Service. James, Vogel.. 438–44
Disc.. 1274
(Electrical Machinery) Power Transformers With Concentric Windings. Paluev.. 649–59
Disc. and closure.. 1272
(Electrical Machinery) Pull-In Characteristics of Synchronous Motors. Shoults, Crary, Lauder. (Dec. 1935, p. 1385–95)
Disc. and closure.. 896
(Electrical Machinery) Salient Pole Motors Out of Synchronism. Lauder.. 636–49
Disc. and closure.. 1247
(Electrical Machinery) Segregation of Losses in Single-Phase Induction Motors. Veinott. (Dec. 1935, p. 1302–06)
Disc. and closure.. 810
(Electrical Machinery) Self-Excitation of a Frequency Converter. Hess. (Dec. 1935, p. 1359–66)
Disc. and closure.. 894
(Electrical Machinery) Self-Regulated Compounded Rectifiers. Goodhue, Power.. 1200–05
(Electrical Machinery) Sliding Contacts—Electrical Characteristics. Baker.. 94–100
Disc. and closure.. 821
(Electrical Machinery) Split Phase Starting of 3-Phase Motors. Tracy, Wyss. (Oct. 1935, p. 1068–72)
Disc. and closure.. 285
(Electrical Machinery) Stray Load Loss Tests on Induction Machines—II. Morgan, Siegfried.. 493–7
Disc. and closure.. 1246
(Electrical Machinery) Switching Surges in Rotating Machines. Calvert, Fielder.. 376–84
(Electrical Machinery) Synchronous Mechanical Rectifier-Inverter—II. Seyfert, Hibshman, Bomberger.. 548–53
Disc. and closure.. 1244
(Electrical Machinery) Test Values of Armature Leakage Reactance. Rogers. (July 1935, p. 700–05)
Disc.. 284
(Electrical Machinery) Tests on Armature Resistance of Synchronous Machines. Robertson. (July 1935, p. 705–09)
Disc. and closure.. 283
(Electrical Machinery) Tests on Lightning Protection for A-C Rotating Machines. Hunter.. 137–44
Disc. and closure.. 1035
(Electrical Machinery) Time-Temperature Tests to Determine Machine Losses. Ross. (May 1935, p. 512–15; disc. Oct. 1935, p. 1107)
Disc. and closure.. 285

(Electrical Machinery) Transient Voltages in Rotating Machines. Hunter. (June 1935, p. 599–603)
Disc. and closure 174
(Electrical Machinery) Vibratorily Commutated Stationary Conversion. Southgate. (Nov. 1935, p. 1213–21)
Disc. and closure 404
Electrical Measurement of Silk Thread Diameter. Shuck 991–6
Electrical Studies of Living Tissue. Conrad, Teare, Haggard 768–72
Electrochemical Industry in Japan, The. Takei 252–4
Electrochemistry (See Electrometallurgy)
Electrolytic Capacitor, The A-C. Lomont, Dunleavey. (Oct. 1935, p. 1058–63)
Disc 287
(Electrometallurgy) Calculations for Coreless Induction Furnaces. Dwight, Bagai. (March 1935, p. 312–15)
Disc. and closure 187
(Electrometallurgy) Induction Heating at Low Temperatures. Bailey. (Nov. 1935, p. 1210–12)
Disc 415
(Electrometallurgy) Photoelectric Control of Resistance Type Metal Heaters. Vedder, Evans. (June 1935, p. 645–50)
Disc. and closure 189
(Electrometallurgy) Power Company Service to Arc Furnaces. Clark. (Nov. 1935, p. 1173–8)
Disc 412
(Electrometallurgy) Storage Battery Charging. Woodbridge. (May 1935, p. 516–25)
Disc. and closure 190
Electrometallurgy, The Engineering Development of Electrochemistry and. Bunet. (Dec. 1935, p. 1320–31)
Disc 409
Electronic Regulator for D-C Generators, An. Gulliksen 873–5
Electronic Transient Visualizers. Reich 1314–18
(Electronics) A Cold-Cathode Arc-Discharge Tube. Germeshausen, Edgerton 790–4
(Electronics) A New Telephotograph System. Reynolds 996–1007
(Electronics) A Static Thermionic Tube Frequency Changer. Schmidt, Griffith. (Dec. 1935, p. 1063–7)
Disc. and closure 407
(Electronics) Amplification Loci of Resistance-Capacitance Coupled Amplifiers. Seletsky 1364–71
(Electronics) Firing Time of an Igniter Type of Tube. Dow, Powers. (Sept. 1935, p. 942–9)
Disc. and closure 279
(Electronics) Heater-Cathode Insulation Performance. Klemperer 981–5
(Electronics) New Developments in Ignitron Welding Control. Dawson 1371–8
(Electronics) Parallel Inverter With Inductive Load. Wagner 970–80
(Electronics) Photoelectric Control of Resistance Type Metal Heaters. Vedder, Evans. (June 1935, p. 645–50)
Disc. and closure 189
(Electronics) Tensor Analysis of Multielectrode-Tube Circuits. Kron 1220–42
(Electrophysics) A Generalized Infinite Integral Theorem. Malti. (Nov. 1935, p. 1222–7)
Disc. and closure 826
(Electrophysics) A-C Characteristics of Dielectrics—II. Banos 1329–37
(Electrophysics) Analysis of Rectifier Filter Circuits. Stout. (Sept. 1935, p. 977–84)
Disc. and closure 280
(Electrophysics) Complex Vectors in 3-Phase Circuits. Sah 1356–64
(Electrophysics) Current and Voltage Loci in 3-Phase Delta-Delta Circuits. Seletsky, Sibila 476–9
(Electrophysics) Current Harmonics in Nonlinear Resistance Circuits. Owens. (Oct. 1935, p. 1055–7)
Disc. and closure 837
(Electrophysics) Currents and Potentials Along Leaky Ground-Return Conductors. Sunde 1338–46
(Electrophysics) Dyadic Algebra Applied to 3-Phase Circuits. Sah 876–82
(Electrophysics Earth Resistivity and Geological Structure. Card. (Nov. 1935, p. 1153–61)
Disc 836
(Electrophysics) Effect of Total Voltage on Breakdown in Vacuum. Anderson. (Dec. 1935, p. 1315–20)
Disc. and closure 830
(Electrophysics) Fields and Charges About a Conductor. Hoover 448–54
Disc. and closure 1269
(Electrophysics) Fields Caused by Remote Thunderstorms. Gould 575–82
Disc. and closure 1271
(Electrophysics) I.E.C. Adopts MKS System of Units. Kennelly. (Dec. 1935, p. 1373–84)
Disc. and closure 831
(Electrophysics) Parallel Inverter With Inductive Load. Wagner 970–80
(Electrophysics Parallel Inverter With Resistance Load. Wagner. (Nov. 1935, p. 1127–35)
Disc. and closure 837
(Electrophysics) Resolution of Surges Into Multivelocity Components. Bewley. (Nov. 1935, p. 1199–1203)
Disc. and closure 903
(Electrophysics) Tensor Algebra in Transformer Circuits. Bewley 1214–19
(Electrophysics) Tensor Analysis of Multielectrode Tube Circuits. Kron 1220–42
(Electrophysics) The Magnetic Vector Potential. McRae 534–42
Disc. and closure 1270
(Electrophysics) The Tensor—A New Engineering Tool. Boyajian 856–62
(Electrophysics) Transformer Circuit Impedance Calculations. Garin, Paluev 717–30
Disc. and closure 1270
(Electrophysics) Two Methods of Mapping Flux Lines. Godsey. (Oct. 1935, p. 1032–6)
Disc. and closure 826
Energy, Positive and Negative, Power and. Doggett, Tarpley. (Nov. 1935, p. 1204–9)
Disc. and closure 410
Engineer, The Measure of an. Bush 854
Engineer Under Changing Conditions, The Young. Hellmund 329–34
Disc. and closure 1151
Engineer, Why the? Durand 1301–03
Engineering, An Advanced Course in. Stevenson, Howard. (March 1935, p. 265–8)
Disc. and closure 181
Engineering Development of Electrochemistry and Electrometallurgy. Bunet. (Dec. 1935, p. 1320–31)
Disc 409
Engineering Education—Opinions and Influencing Factors. King, Eshbach 730–4
Disc. and closure 1146
Engineering Education, Professional Aspects of 863–7
Engineering Education, The New Epoch in. Williams 132–6
Engineering Features of the Boulder Dam-Los Angeles Lines. Scattergood. (May 1935, p. 494–512)
Disc. and closure 200, 282
Engineering Graduates, An Analysis of Electrical 952–3
Engineering Tool, the Tensor—A New. Boyajian 855–62
Engineering View of and From Steinmets, An. Swope 572–4
Equipment for Oil Power Factor, Measuring. Berberich 264–8
Disc. and closure 1260
Equipment for Waterworks Systems, Electrical. Canariis 36–40
Equivalent Circuits—2 Coupled Circuits. Balsbaugh, Douglass, Gow, Leal 366–71
Disc 1037
Exact Formula for Transformer Regulation, An. Clem 466–71
Disc. and closure 1274
Experiences With a Modern Relay System. Gerell 1130–6
Exploring the Atomic Nucleus. Dushman 760–7
Letter 1156
Explosion-Proof Motors, Inspection and Tests of. Nuckolls 151–8
Exposition, Electrical Features of the Texas Centennial Central. Fies 1060–74
Exposition, Some Lighting Features at the Great Lakes 1304–05

Faster Carrier Pilot Relay System, A. Traver, Bancker 688–96
Disc 1252
Fault and Out-of-Step Protection of Lines. Braley, Harvey. (Feb. 1935, p. 189–200)
Disc. and closure 197
Ferromagnetic Theory, Present Status of. Bozorth. (Nov. 1935, p. 1251–61)
Disc. and closure 884
Fields and Charges About a Conductor. Hoover 448–54
Disc. and closure 1269
Fields Caused by Remote Thunderstorms. Gould 575–82
Disc. and closure 1271
Filter Circuits, Analysis of Rectifier. Stout. (Sept. 1935, p. 977–84)
Disc. and closure 280
Firing Time of an Igniter Type of Tube. Dow, Powers. (Sept. 1935, p. 942–9)
Disc. and closure 279
Flashing of Railway Motors Caused by Brush Jumping. Hellmund. (Nov. 1935, p. 1178–85)
Disc. and closure 812
Flashovers on Transmission Lines. Bewley 342–54
Disc. and closure 1136
Flux Lines, Two Methods of Mapping. Godsey. (Oct. 1935, p. 1032–6)
Disc. and closure 826
Formula for Transformer Regulation, An Exact. Clem 466–71
Disc. and closure 1274
Frequency Converter, Self-Excitation of a. Hess. (Dec. 1935, p. 1359–66)
Disc. and closure 894
Frequency Tripling Transformers. Cantwell 784–90
Disc 1039
Furnaces, Calculations for Coreless Induction. Dwight, Bagai. (March 1935, p. 312–15)
Disc. and closure 187
Furnaces, Power Company Service to Arc. Clark. (Nov. 1935, p. 1173–8)
Disc 412
Fuse for Network Protectors, A New Thermal. Nettleton 1096–9

G

Gap for Lightning Protection, The Control. Higgins, Rorden 1029–34
Gaseous-Conduction Lamps, High-Efficiency. Buttolph 1174–80
Generalised Infinite Integral Theorem, A. Malti. (Nov. 1935, p. 1222–7)
Disc. and closure 826
Generators, An Electronic Regulator for D-C. Gulliksen 873–05
Geological Structure, Earth Resistivity and. Card. (Nov. 1935, p. 1153–61)
Disc 836
Great Lakes Exposition, Some Lighting Features at the 1304–05
Ground, Calculations of Resistances to. Dwight 1319–28
Ground-Return Conductors, Currents and Potentials Along Leaky. Sunde 1338–46

H

Hawaiian Radiotelephone System, The. Harrington, Hansell. (Aug. 1935, p. 822–8)
Disc. and closure 290
Heart, Effect of Electric Shock on the. Ferris, King, Spence, Williams 498–515
Disc. and closure 1263
Heater-Cathode Insulation Performance. Klemperer 981–5
Heating at Low Temperatures, Induction. Bailey. (Nov. 1935, p. 1210–2)
Disc 415
(Heaviside's Method) A Generalized Infinite Integral Theorem. Malti. (Nov. 1935, p. 1222–7)
Disc. and closure 826
(Heaviside's Method) Operational Solution of Electric Circuits. Brunetti 158–64
High-Efficiency Gaseous-Conduction Lamps. Buttolph 1174–80
High-Intensity Mercury-Arc Lamps. Marden, Meister, Beese 1186–90
High Power Audio Transformers. Peters 34–6
Disc. and closure 889
Highway Lighting—Principles and Sources. Halvorson 735–46
Highways at Night, Better Visibility Needed on. Wood 614–88
History of the A-C System in America, Early. Chesney, Scott 228–35
(Human Relations) Research and Social Progress. Kettering 324–8
(Human Relations) The New Epoch in Engineering Education. Williams 132–6
(Human Relations) The Young Engineer Under Changing Conditions. Hellmund 329–34
Disc. and closure 1151
Huntley Station No. 2, Design and Operation of. Cushing. (June 1935, p. 632–45; disc. Sept. 1935, p. 996)
Disc. and closure 172
Hydrogen Cooling of Rotating Machines. Laffoon 703–9
Disc 1243
Hydrogen Cooling—With Near-Critical Velocities. Penney 530–4
Disc. and closure 1248

I

Igniter Type of Tube, Firing Time of an. Dow, Powers. (Sept. 1935, p. 942–9)
Disc. and closure 279
Ignitron Welding Control, New Developments in. Dawson 1371–8
(Illumination) Better Visibility Needed on Highways at Night. Wood 614–8
(Illumination) Electrical Features of the Texas Centennial Central Exposition. Fies 1060–74
(Illumination) High-Efficiency Gaseous-Conduction Lamps. Buttolph 1174–80
(Illumination) High-Intensity Mercury-Arc Lamps. Marden, Meister, Beese 1186–90
(Illumination) Highway Lighting—Principles and Sources. Halvorson 735–46
(Illumination) Progress in the Production and Application of Light. (Com. rept.) 1111–20
(Illumination) Some Lighting Features at the Great Lakes Exposition 1304–5
(Illumination) The Qualities of Incandescent Lamps. Millar 516–23
Disc. and closure 1144
(Illumination) Today's Trends in Lighting. Powell 1100–10
Impedance Calculations, Transformer Circuit. Garin, Paluev 717–30
Disc. and closure 1270
Impedance Measurements on Underground Cables. Webb, Manz 359–65
Disc. and closure 1138
Improvements in Communication Transformers. Gans, Laird. (Dec. 1935, p. 1367–73)
Disc. and closure 890
Impulse Circuit Breakers, Special Tests on. Skeats 710–17
Disc. and closure 1256
Impulse Test Voltages, The Production of. Sprague. (Oct. 1935, p. 1100–04)
Disc. and closure 271
Impulse Voltages Chopped on Front. Bellaschi 985–90
Incandescent Lamps, The Qualities of. Millar 516–23
Disc. and closure 1144
Induction Heating at Low Temperatures. Bailey. (Nov. 1935, p. 1210–12)
Disc 415
Induction Machines, Stray Load Loss Tests on. Morgan, Siegfried 493–7
Disc. and closure 1246
Induction Meter, Torque in a Bipolar. Morton 354–8
Disc 893
Induction Motor Resistance Ring Width. Trickey 144–50
Induction Motors, D-C Braking of. Harrel, Hough. (May 1935, p. 488–93)
Disc. and closure 167
Induction Motors on Unbalanced Voltages. Reed, Koopman 1206–13
Induction Motors, Segregation of Losses in Single Phase. Veinott. (Dec. 1935, p. 1302–6)
Disc. and closure 810
(Induction Motors) Split Phase Starting of 3-Phase Motors. Tracy, Wyss. (Oct. 1935, p. 1068–72)
Disc. and closure 285
Induction Motors Under Unbalanced Conditions. Lunn 387–93
(Industrial) "Angle Switching" of Synchronous Motors. Shutt, Dawson. (Nov. 1935, p. 1191–5)
Disc. and closure 895
(Industrial) D-C Circuit Breakers for Steel Mill Service. Deans. (June 1935, p. 594–8)
Disc 170
(Industrial) Electric Power Equipment for Steel Plants. Wright. (May 1935, p. 481–5)
Disc. and closure 170
(Industrial) Induction Heating at Low Temperatures. Bailey. (Nov. 1935, p. 1210–12)
Disc 415
(Industrial) Photoelectric Control of Resistance Type Metal Heaters. Vedder, Evans. (June 1935, p. 645–50)
Disc. and closure 189
(Industrial) Speed Transients of D-C Rolling Mill Motors. Umansky, Linville. (Apr. 1935, p. 387–94)
Disc. closure 172
Industry, Electrical Developments in the Steel Industry. Wright 1168–73
Infinite Integral Theorem, A Generalised. Malti. (Nov. 1935, p. 1222–7)
Disc. and closure 826
Influence of James Watt on the Central Station Industry, The. Orrok 358
Inspection Tests of Explosion-Proof Motors. Nuckolls 151–8
Instrument Transformers, Some Applications of. Knopp 480–9
Disc. and closure 1257
(Instruments) A Cathode Ray Oscillograph for Observing 2 Waves. George, Heim, Mayer, Roys. (Oct. 1935, p. 1095–1100)
Disc. and closure 270
(Instruments) A New Watt-Hour Meter. Green. (Oct. 1935, p. 1073–84)
Disc. and closure 289
(Instruments) Breaker Performance Studied by Cathode Ray Oscillograms. Van Sickle. (Feb. 1935, p. 178–84)
Disc. and closure 194
(Instruments) Cold-Cathode Arc-Discharge Tube, A. Germeshausen, Edgerton 790–4; 809
(Instruments) Effect of Electric Shock on the Heart. Ferris, King, Spence, Williams 498–515
Disc. and closure 1263
(Instruments) Effect of Total Voltage on Breakdown in Vacuum. Anderson. (Dec. 1935, p. 1315–20)
Disc. and closure 830
(Instruments) Effect of Ultraviolet on Breakdown Voltage. Nord. (Sept. 1935, p. 955–8)
Disc. and closure 272
(Instruments) Electrical Measurement of Silk Thread Diameter. Shuck 991–6
(Instruments) Electrical Studies of Living Tissue. Conrad, Teare, Haggard 768–72
(Instruments) Electronic Transient Visualizers. Reich 1314–18
(Instruments) Impulse Voltages Chopped on Front. Bellaschi 985–90
(Instruments) Measuring Equipment for Oil Power Factor. Berberich 264–8
Disc. and closure 1260
(Instruments) Remote Metering and Automatic Load Control. Logan 40–7
Disc. and closure 891
(Instruments) Revised Sphere-Gap Spark-Over Voltages. (Com. rept.) 783
(Instruments) The Compensated Thermocouple Ammeter. Goodwin 23–33
Disc. and closure 407
(Instruments) The Production of Impulse Test Voltages. Sprague. (Oct. 1935, p. 1100–04)
Disc. and closure 271
(Instruments) The Sparkless Sphere Gap Voltmeter. Sorensen, Hobson, Ramo. (June 1935, p. 651–6; disc. Sept. 1935, 1002)
Disc. and closure 293
(Instruments) The Sparkless Sphere Gap Voltmeter—II. Sorensen, Ramo 444–7
Disc. and closure 1265
(Instruments) Torque in a Bipolar Induction Meter. Morton 354–8
Disc 893
Insulation, A Criterion of Quality of Cable. Wyatt, Spring. (Apr. 1935, p. 411–21)
Disc. and closure 204
(Insulation) A-C Characteristics of Dielectrics—II. Banos 1329–37

Insulation, Breakdown Curve for Solid. Montsinger. (Dec. 1935, p. 1300–01)
Disc. and closure ... 399
(Insulation) Calorimetric Measurement of Dielectric Loss. Race, Leonard ... 1347–56
Insulation for High Voltage Alternators. Laffoon, Calvert. (June 1935, p. 624–31)
Disc. and closure ... 177
(Insulation) Measuring Equipment for Oil Power Factor. Berberich ... 264–8
Disc. and closure ... 1260
(Insulation) Overrefined Oils in Power Transformers. Ford ... 371–5
Insulation Performance, Heater-Cathode. Klemperer ... 981–5
Insulation, Pyrochemical Behavior of Cellulose. Clark. (Oct. 1935, p. 1088–94)
Disc. ... 901
(Insulation) Recent Progress in Dielectric Research. Whitehead ... 1180–5
Insulation, Studies of Stability of Cable. Halperin, Betser ... 1074–82
(Insulation) Switching Surges in Rotating Machines. Calvert, Fielder ... 376–84
Insulators, Porcelain for High Voltage. Rowland ... 618–26
Disc. and closure ... 1142
Integral Theorem, A Generalized Infinite. Malti. (Nov. 1935, p. 1222–7)
Disc. and closure ... 826
Interest and Appreciation. Meyer ... 759
I.E.C. Adopts MKS System of Units. Kennelly. (Dec. 1935, p. 1373–84)
Disc. and closure ... 831
Inverter—II, Synchronous Mechanical Rectifier. Seyfert, Hibshman, Bomberger ... 548–53
Disc. and closure ... 1244
Inverter With Inductive Load, Parallel. Wagner ... 970–80
Inverter With Resistance Load, Parallel. Wagner. (Nov. 1935, p. 1127–35)
Disc. and closure ... 837
Iron, Nickel, and Cobalt, Magnetic Alloys of. Elmen. (Dec. 1935, p. 1292–98)
Disc. and closure ... 887

J

Japan, The Electrochemical Industry in. Takei ... 252–4

L

Laboratory Studies of Conductor Vibration. Carroll ... 543–7
Disc. and closure ... 1148
Lamps, High-Efficiency Gaseous-Conduction. Buttolph ... 1174–80
Lamps, High-Intensity Mercury-Arc. Marden, Beese, Meister ... 1186–90
Lamps, The Qualities of Incandescent. Millar ... 516–23
Disc. and closure ... 1144
Letters to the Editor
Calculating Power Factor in a 3-Phase Circuit.
Balombin ... 217
von Dannenberg ... 845
Capacitor Motor With Double Cage Rotor.
Puchstein ... 121
Bretch ... 310
Crossing the St. Lawrence With Unstressed Cable Lengths. von Dannenberg ... 939
Definition of Coercive Force. Hartenheim ... 939
Definition of "Inventing." Walther ... 1155
Dissociation in Arc Welding. Suits. ... 561
Dyadic Algebra Applied to 3-Phase Circuits. Havill ... 1287
Equivalent Circuit of a Self-Excited Capacitor Generator. Ball ... 425
Exploring the Atomic Nucleus. Dushman ... 1156
Installations of Hochstadter Pressure Cable. Del Mar ... 218
Mechanical Development of Transformer by Westinghouse. Scott ... 1403
Modern Machines in Verse. Ketchum ... 1287
Mr. Canby's "Alma Mater." Douglas ... 425
Neutralising Transformers for Pilot Wire Protection.
Osborne ... 121
George ... 121
Honaman ... 561
Professional Aspects of Engineering Education. Hammond ... 1045
Registration of Engineers.
Faus ... 217
Steinman ... 844
Revised Sphere-Gap Spark-Over Voltages. Weller ... 1046
Self-Excitation of a Frequency Converter.
Fleischmann ... 940
Hess ... 940
Similarity Relations in Electrical Engineering. Brainerd, Neufeld. 310
Solving for Components of Complex Propagation Constant. Jaffe ... 1287
Two Methods of Mapping Flux Lines. Roth, Bethenod ... 1287
Voltage Regulation Diagram for Constant Sending Voltage, A. Cissna ... 562
Voltage Regulation of Alternators. Wagner ... 1046
Zigzag Leakage. Puchstein, Lloyd. 1155
Light (See Illumination)
Lightning Arrester Economics. Sporn, Gross ... 84–93
Disc. and closure ... 815
Lightning Currents in Field and Laboratory. Beliaschi. (Aug. 1935, p. 837–43)
Disc. and closure ... 393
Lightning Investigation on a 220-Kv System. Bell ... 1306–13
Lightning Investigations on a Distribution System. Halperin, Grosser ... 63–70
Disc. and closure ... 903
(Lightning Protection) Flashovers on Transmission Lines. Bewley ... 342–54
Disc. and closure ... 1136
Lightning Protection for A-C Rotating Machines, Tests on. Hunter ... 137–44
Disc. and closure ... 1035
Lightning Protection for Transformers. (Com. rept.) ... 53–6
Disc ... 918
(Lightning Protection) Modernization of Transmission Lines. (Com. rept.) ... 14–18
Disc ... 919
Lightning Protection of Distribution Transformers. Flanigen. (Dec. 1935, p. 1400–05)
Disc. and closure ... 909
Lightning Protection Practices, Distribution Transformer. Smith ... 47–53
Disc. and closure ... 911
(Lightning Protection) Surge Currents in Protective Devices. Opsahl. (Feb. 1935, p. 200–04)
Disc ... 199
Lightning Protection, The Control Gap for. Higgins, Rorden ... 1029–34
Load Loss Tests on Induction Machines—II, Stray. Morgan, Siegfried ... 493–7
Disc. and closure ... 1246
Load Losses in Salient Pole Synchronous Machines. Pollard. (Dec. 1935, p. 1332–40)
Disc ... 809
Loci in 3-Phase Delta-Delta Circuits, Current and Voltage. Seletsky, Sibila ... 476–9
Loci of Resistance-Capacitance Coupled Amplifiers, Amplification. Seletsky ... 1364–71
Locomotive to Caboose Radio Communication. Ellis ... 109–13
Disc. and closure ... 825
Locomotives, Electrical Apparatus for Diesel Cars and. Smith ... 335–41
Disc ... 1385
Looking Forward. Meyer ... 3
Lightning Investigation on Transmission Lines—V. Lewis, Foust. (Sept. 1935, p. 934–42)
Disc. and closure ... 274
(Lightning) The Production of Impulse Test Voltages. Sprague. (Oct. 1935, p. 1100–04)
Disc. and closure ... 271
Los Angeles Lines, Engineering Features of the Boulder Dam. Scattergood. (May 1935, p. 494–512)
Disc. and closure ... 200, 282
Loss, Calorimetric Measurement of Dielectric. Race, Leonard ... 1347–56
Losses, Time-Temperature Tests to Determine Machine. Ross. (May 1935, p. 512–15; disc. Oct. 1935, p. 1107)
Disc. and closure ... 285

M

Machinery (See Electrical Machinery)
Machines, Load Losses in Salient Pole Synchronous Machines. Pollard. (Dec. 1935, p. 1332–40)
Disc ... 809
Machines, Operational Solution of A-C. Miller, Weil ... 1191–1200
Machines, Stray Load Loss Tests on Induction. Morgan, Siegfried ... 493–7
Disc. and closure ... 1246
Machines, Transient Voltages in Rotating. Hunter. (June 1935, p. 599–603)
Disc. and closure ... 174
Magnet Materials, Permanent. Williams ... 19–23
Disc ... 885
Magnetic Alloys of Iron, Nickel, and Cobalt. Elmen. (Dec. 1935, p. 1292–9)
Disc. and closure ... 887
Magnetic Fields in Machinery Windings. Douglas. (Sept. 1935, p. 959–66)
Disc. and closure ... 287
(Magnetic) Present Status of Ferro-magnetic Theory. Bosorth. (Nov. 1935, p. 1251–61)
Disc. and closure ... 884
(Magnetic) Two Methods of Mapping Flux Lines. Godsey. (Oct. 1935, p. 1032–6)
Disc. and closure ... 826
Magnetic Vector Potential, The. MacRae ... 534–42
Disc. and closure ... 1270
Mapping Flux Lines, Two Methods of. Godsey. (Oct. 1935, p. 1032–6)
Disc. and closure ... 826
Measure of an Engineer, The. Bush ... 854
Measurement, Cable Vibration—Methods of. Carroll, Koontz ... 490–7
Disc. and closure ... 1147
Measurement of Dielectric Loss, Calorimetric. Race, Leonard ... 1347–56
Measurement of Silk Thread Diameter, Electrical. Shuck ... 991–6
Measurement of Telephone Noise and Power Wave Shape. Barstow, Blye, Kent. (Dec. 1935, p. 1307–14)
Disc. and closure ... 818
(Measurements) A Cathode Ray Oscillograph for Observing 2 Waves. George, Heim, Mayer, Roys. (Oct. 1935, p. 1095–1100)
Disc. and closure ... 270

(Measurements) A New Watt-Hour Meter. Green. (Oct. 1935, p. 1073–84)
Disc. and closure 289
(Measurements) Breaker Performance Studied by Cathode Ray Oscillograms. Van Sickle. (Feb. 1935, p. 178–84)
Disc. and closure 194
(Measurements) Cold-Cathode Arc-Discharge Tube, A. Germeshausen, Edgerton 790–4; 809
(Measurements) Definition of Power and Related Quantities. Curtis, Silsbee. (Apr. 1934, p. 394–404; disc. Oct. 1935, p. 1120)
Disc. and closure 182
(Measurements) Effect of Electric Shock on the Heart. Ferris, King, Spence, Williams 498–515
Disc. and closure 1263
(Measurements) Effect of Total Voltage on Breakdown in Vacuum. Anderson. (Dec. 1935, p. 1315–20)
Disc. and closure 830
(Measurements) Effect of Ultraviolet on Breakdown Voltage. Nord. (Sept. 1935, p. 955–8)
Disc. and closure 272
(Measurements) Electrical Studies of Living Tissue. Conrad, Teare, Haggard 768–72
(Measurements) Electronic Transient Visualizers. Reich 1314–18
(Measurements) Fields Caused by Remote Thunderstorms. Gould ... 575–82
Disc. and closure 1271
(Measurements) Hydrogen Cooling—With Near-Critical Velocities. Penney 530–4
Disc. and closure 1248
(Measurements) Impulse Voltages Chopped on Front. Bellaschi .. 985–90
(Measurements) Measuring Equipment for Oil Power Factor. Berberich 264–8
Disc. and closure 1260
Measurements on Underground Cables, Impedance. Webb, Manx 359–65
Disc. and closure 1138
(Measurements) Power and Energy, Positive and Negative. Doggett, Tarpley. (Nov. 1935, p. 1204–9)
Disc. and closure 410
(Measurements) Remote Metering and Automatic Load Control. Logan .. 40–7
Disc. and closure 891
(Measurements) Revised Sphere-Gap Spark-Over Voltages. (Com. rept.) 783
(Measurements) Some Applications of Instrument Transformers. Knopp 480–9
Disc. and closure 1257
(Measurements) Spark Lag of the Sphere Gap. Harrington, Hansell. (Aug. 1935, p. 868–76)
Disc. and closure 290
(Measurements) The Compensated Thermocouple Ammeter. Goodwin 23–33
Disc. and closure 407
(Measurements) The Production of Impulse Test Voltages. Sprague. (Oct. 1935, p. 1100–04)
Disc. and closure 271
(Measurements) The Sparkless Sphere Gap Voltmeter. Sorensen, Ramo 444–7
Disc. and closure 1265
(Measurements) The Sparkless Sphere Gap Voltmeter. Sorensen, Hobson, Ramo. (June 1935, p. 651–6; disc. Sept. 1935, 1002)
Disc. and closure 293
(Measurements) Torque in a Bipolar Induction Meter. Morton 354–8
Disc. 893
Measuring Equipment for Oil Power Factor. Berberich 264–8
Disc. and closure 1260
Mercury-Arc Lamps, High-Intensity. Marden, Meister, Beese 1186–90
Mercury Arc Rectifiers, Automatic Control for. Bany, Reagan 100–09
Disc. 893
Message From the President, A. MacCutcheon .951, 1059, 1167, 1299–1300
Message From the President. Meyer. 3, 131, 227, 323, 435, 571, 759, 855–6
MKS System of Units, IEC Adopts. Kennelly. (Dec. 1935, p. 1373–84)
Disc. and closure 831
Meter, Torque in a Bipolar Induction. Morton 354–8
Disc. 893
Metering and Automatic Load Control, Remote. Logan 40–7
Disc. and closure 891
Metering, Supervisory Control and Remote. Duer 70–5
Disc. 890
Meters, Tentative Standards for Sound Level. McCurdy 260–3
Microphones, The Calibration of. (Com. rept.) 241–5
Modernization of Power Distribution Systems. Seelye 75–84
Disc. and closure 914
Modernization of Relay Systems. Muller and Turner 56–62
Disc. 922
Modernization of Transmission Lines. (Com. rept.) 12–8
Disc. 919
Moffat Process for Producing Steel. Sutherland 217
Motor, An Analysis of the Shaded Pole. Trickey 1007–14
Motor Resistance Ring Width, Induction. Trickey 144–50
Motors, "Angle Switching" of Synchronous. Shutt, Dawson. (Nov. 1935, p. 1191–5)
Disc. and closure 895
Motors Caused by Brush Jumping, Flashing of Railway. Hellmund. (Nov. 1935, p. 1178–85)
Disc. and closure 812
Motors, D-C Braking of Induction. Harrell, Hough. (May 1935, p. 488–93)
Disc. and closure 167
Motors, Inspection and Tests of Explosion-Proof. Nuckolls 151–8
Motors on Unbalanced Voltages, Induction. Koopman, Reed 1206–13
Motors Out of Synchronism, Salient Pole. Lauder 636–49
Disc. and closure 1247
Motors, Pull-In Characteristics of Synchronous Motors. Shoults, Crary, Lauder. (Dec. 1935, p. 1385–95)
Disc. and closure 896
Motors, Segregation of Losses in Single Phase Induction. Veinott. (Dec. 1935, p. 1302–06)
Disc. and closure 810
Motors, Speed Transients of D-C Rolling Mill Motors. Umansky, Linville. (Apr. 1935, p. 387–94)
Disc. closure 172
Motors, Split Phase Starting of 3-Phase. Tracy, Wyss. (Oct. 1935, 1068–72)
Disc. and closure 285
Motors Under Unbalanced Conditions, Induction. Lunn 387–93
Multielectrode-Tube Circuits, Tensor Analysis of. Kron 1290–42

N

(National Research Council) Recent Progress in Dielectric Research. Whitehead 1180–5
Negative-Sequence Reactance of Synchronous Machines. Thomas 1378–85
Network Protectors, A New Thermal Fuse for. Nettleton 1096–9
Neutralising Transformer to Protect Power Station Communication. Georgs, Honaman, Lockrow, Schwartz 534–9
Neutralising Transformers for Pilot Wire Protection. George, Brownlee. (Nov. 1935, p. 1262–9)
Letters 121, 561
New Carrier-Current Coupling Capacitor, A. Eby. (Aug. 1935, p. 948–52)
Disc. and closure 281
New Distance Ground Relay, A. Goldsborough, Smith 697–703
Disc. and closure 1255
New Developments in Welding Control. Dawson 1371–8
New Epoch in Engineering Education, The. Williams 132–6
New Telephotograph System, A. Reynolds 996–1007
New Thermal Fuse for Network Protectors, A. Nettleton 1096–9
New Watt-Hour Meter, A. Green. (Oct. 1935, p. 1073–84)
Disc. and closure 289
Nickel and Cobalt, Magnetic Alloys of Iron, Elmen. (Dec. 1935, p. 1292–99)
Disc. and closure 87
Noise and Power Wave Shape, Measurement of Telephone. Barstow, Blye, Kent. (Dec. 1935, p. 1307–14)
Disc. and closure 818
(Noise Measurements) Tentative Standards for Sound Level Meters. McCurdy 260–3

O

Oil Circuit Breaker and Voltage Recovery Tests. Poitras, Kuehni, Skeats. (Feb. 1935, p. 170–8)
Disc. and closure 193, 269
Oils in Power Transformers, Overrefined. Ford 371–5
Operation of Huntley Station No. 2, Design and. Cushing. (June 1935, p. 632–45; disc. Sept. 1935, p. 996)
Disc. closure 172
(Operational Calculus) A Generalized Infinite Integral Theorem. Malti. (Nov. 1935, p. 1222–7)
Disc. and closure 826
Operational Solution of A-C Machines. Miller, Weil 1191–1200
Operational Solution of Electric Circuits. Brunetti 158–64
Oscillograph for Observing 2 Waves, A Cathode Ray. George, Heim, Mayer, Roys. (Oct. 1935, p. 1095–1100)
Disc. and closure 270
Overrefined Oils in Power Transformers. Ford 371–5

P

Paper, Tests on Oil Impregnated. Race 590–9
Disc. and closure 1140
Parallel Inverter With Inductive Load. Wagner 970–80
Parallel Inverter With Resistance Load. Wagner. (Nov. 1935, p. 1127–35)
Disc. and closure 837
Performance of Distance Relays. Calabrese 660–72
Disc. and closure 1254
Permanent Magnet Materials. Williams 19–23
Disc. 885
Pilot Wire Relay Protection. George, Brownlee. (Nov. 1935, p. 1262–9)
Disc. and closure 907

Photoelectric Control of Resistance Type Metal Heaters. Vedder, Evans. (June 1935, p. 645–50)
Disc. and closure ... 189
Porcelain for High Voltage Insulators. Rowland ... 618–26
Disc. and closure ... 1142
Potential, The Magnetic Vector. Mc-Rae ... 534–42
Disc. and closure ... 1270
Potentials Along Leaky Ground-Return Conductors, Currents and. Sunde ... 1338–46
Power and Energy, Positive and Negative. Doggett, Tarpley. (Nov. 1935, p. 1204–09)
Disc. and closure ... 410
Power Company Service to Arc Furnaces. Clark. (Nov. 1935, p. 1173–8)
Disc. ... 412
Power Factor, Measuring Equipment for Oil. Berberich ... 264–8
Disc. and closure ... 1260
(Power Generation) Design and Operation of Huntley Station No. 2. Cushing. (June 1935, p. 632–45; disc. Sept. 1935, p. 996)
Disc. closure ... 172
Power Transformers for 287.5-Kv Service. James, Vogel ... 438–44
Disc. ... 1274
Power Transformers With Concentric Windings. Paluev ... 649–59
Disc. and closure ... 1272
Present Status of Ferromagnetic Theory. Bozorth. (Nov. 1935, p. 1251–61)
Disc. and closure ... 884
Privileges and Emoluments of a President, The. MacCutcheon ... 1167
Production of Impulse Test Voltages, The. Sprague. (Oct. 1935, p. 1100–04)
Disc. and closure ... 271
Professional Aspects of Engineering Education ... 863–7
Letter ... 1045
Professional Recognition. Meyer ... 323
Progress in the Production and Application of Light. (Com. rept.) ... 1111–20
(Protection) Carrier Relaying and Rapid Reclosing at 110 Kv. Pierce, Powers, Stewart, Heberlein ... 1120–9
Protection for A-C Rotating Machines, Tests on. Hunter ... 137–44
Disc. and closure ... 1035
(Protective Devices) A Disturbance Duration Recorder. Frier ... 1025–8
(Protective Devices) A Faster Carrier Pilot Relay System. Traver, Bancker ... 688–96
Disc. ... 1252
(Protective Devices) A New Distance Ground Relay. Goldsborough, Smith ... 697–703
Disc. and closure ... 1255
(Protective Devices) A New Thermal Fuse for Network Protectors. Nettleton ... 1096–9
(Protective Devices) Breaker Performance Studied by Cathode Ray Oscillograms. Van Sickle. (Feb. 1935, p. 178–84)
Disc. and closure ... 194
(Protective Devices) Circuit Breakers for Boulder Dam Line. Prince. (Apr. 1935, p. 366–72)
Disc. and closure ... 196, 269
(Protective Devices) Circuit Breakers for Boulder Dam Line. Wilcox, Leeds ... 625–35
Disc. and closure ... 1250
(Protective Devices) Discharge Currents in Distribution Arresters. McEachron, McMorris. (Dec. 1935, p. 1395–9)
Disc. and closure ... 814
(Protective Devices) Distribution Transformer Lightning Protection Practices. Smith ... 47–53
Disc. and closure ... 911
(Protective Devices) Fault and Out-of-Step Protection of Lines. Bracley, Harvey. (Feb. 1935, p. 189–200)
Disc. and closure ... 197
(Protective Devices) Lightning Arrester Economics. Sporn, Gross. ... 84–93
Disc. and closure ... 815
(Protective Devices) Lightning Investigations on a Distribution System. Halperin, Grosser ... 63–70
Disc. and closure ... 903
(Protective Devices) Lightning Protection of Distribution Transformers. Flanigen. (Dec. 1935, p. 1400–05)
Disc. and closure ... 909
(Protective Devices) Lightning Protection for Transformers. (Com. rept.) ... 53–6
Disc. ... 918
(Protective Devices) Modernization of Relay Systems. Muller, Turner ... 56–62
Disc. ... 922
(Protective Devices) Neutralizing Transformer to Protect Power Station Communication. George, Honaman, Lockrow, Schwartz ... 524–9
(Protective Devices) Oil Circuit Breaker and Voltage Recovery Tests. Poitras, Kuehni, Skeats. (Feb. 1935, p. 170–8)
Disc. and closure ... 193, 269
(Protective Devices) Performance of Distance Relays. Calabrese ... 660–72
Disc. and closure ... 1254
(Protective Devices) Pilot Wire Relay Protection. George, Brownlee. (Nov. 1935, p. 1262–9)
Disc. and closure ... 907
(Protective Devices) Special Tests on Impulse Circuit Breakers. Skeats. ... 710–17
Disc. and closure ... 1256
Protective Devices, Surge Currents in. Opsahl. (Feb. 1935, p. 200–04)
Disc. ... 199
(Protective Devices) Surge Protectors for Current Transformers. Camilli, Bewley ... 254–60
(Protective Devices) The Control Gap for Lightning Protection. Higgins, Rorden ... 1029–34
(Protective Devices) The Determination of Circuit Recovery Rates. Boehne. (May 1935, p. 530–9)
Disc. and closure ... 191, 269
(Protective Devices) 287-Kv Boulder Dam Disconnecting Switches. Bowie, Garman ... 582–9
Protectors for Current Transformers, Surge. Camilli, Bewley ... 254–60
Pull-In Characteristics of Synchronous Motors. Shoults, Crary, Lauder. (Dec. 1935, p. 1385–95)
Disc. and closure ... 896
Pyrochemical Behavior of Cellulose Insulation. Clark. (Oct. 1935, p. 1088–94)
Disc. ... 901

Q

Qualities of Incandescent Lamps, The. Millar ... 516–23
Disc. and closure ... 1144

R

Radio Communication, Locomotive to Caboose. Ellis ... 109–13
Disc. and closure ... 825
Radiotelephone System, The Hawaiian. Harrington, Hansell. (Aug. 1935, p. 822–8)
Disc. and closure ... 290
Railroads, Diesel Electric Motive Power for. Candee. (Aug. 1935, p. 863–8)
Disc. and closure ... 294
Reactance of Synchronous Machines, Negative-Sequence. Thomas ... 1378–85
Reactance, Test Values of Armature Leakage. Rogers. (July 1935, p. 700–05)
Disc. ... 284
Recent Progress in Dielectric Research. Whitehead ... 1180–5
Recorder, A Disturbance Duration. Frier ... 1025–8
Recovery Rates, The Determination of Circuit. Boehne. (May 1935, p. 530–9)
Disc. and closure ... 191, 269
Rectifier Filter Circuits, Analysis of. Stout. (Sept. 1935, p. 977–84)
Disc. and closure ... 280
(Rectifier) Firing Time of an Igniter Type of Tube. Dow, Powers. (Sept. 1935, p. 942–9)
Disc. and closure ... 279
Rectifier-Inverter—II, Synchronous Mechanical. Seyfert, Hibshman, Bomberger ... 548–53
Disc. and closure ... 1244
Rectifiers, Automatic Control for Mercury Arc. Bany, Reagan ... 100–09
Disc. ... 893
Rectifiers, Self-Regulated Compounded. Goodhue, Power ... 1200–05
Registration of Engineers. Steinman. (Aug. 1935, p. 876–81)
Letters ... 217, 844
Regulator, A D-C Controlled Voltage. Odessey ... 956–60
Regulator for D-C Generators, An Electronic. Gulliksen ... 873–5
Relay, A New Distance Ground. Goldsborough, Smith ... 697–703
Disc. and closure ... 1255
Relay Protection, Pilot Wire. George, Brownlee. (Nov. 1935, p. 1262–9)
Disc. and closure ... 907
Relay System, A Faster Carrier Pilot. Traver, Bancker ... 688–96
Disc. and closure ... 1252
Relay System, Experiences With a Modern. Gerell ... 1130–6
Relay Systems, Modernization of. Muller, Turner ... 56–62
Disc. ... 922
(Relaying) A New Carrier-Current Coupling Capacitor. Eby. (Aug. 1935, p. 484–52)
Disc. and closure ... 281
Relaying and Rapid Reclosing at 110 Kv, Carrier. Pierce, Powers, Stewart, Heberlein ... 1120–9
Relays, Performance of Distance. Calabrese ... 660–72
Disc. and closure ... 1254
Remote Metering and Automatic Load Control. Logan ... 40–7
Disc. and closure ... 891
Remote Metering, Supervisory Control and. Duer ... 70–5
Disc. ... 890
Report of the Board of Directors ... 795–808
(Research) A-C Characteristics of Dielectrics—II. Banos ... 1329–37
Research and Social Progress. Kettering ... 324–8
(Research) Calorimetric Measurement of Dielectric Loss. Race, Leonard ... 1347–56
(Research) Effect of Electric Shock on the Heart. Ferris, King, Spence, Williams ... 498–515
Disc. and closure ... 1263
(Research) Electric Shock Effects of Frequency. Kouwenhoven, Hooker, Lotz ... 384–6
(Research) Electrical Studies of Living Tissue. Conrad, Teare, Haggard. ... 768–72
(Research) Firing Time of an Igniter Type of Tube. Dow, Powers. (Sept. 1935, p. 942–9)
Disc. and closure ... 279

(Research) Pyrochemical Behavior of Cellulose Insulation. Clark. (Oct. 1935, p. 1088–94)
Disc. 901
Research, Recent Progress in Dielectric. Whitehead 1180–5
(Research) Tests on Oil Impregnated Paper. Race 590–9
Disc. and closure 1140
Resistance-Capacitance Coupled Amplifiers, Amplification Loci of. Seletsky 1364–71
Resistance of Synchronous Machines, Tests on Armature. Robertson. (July 1935, p. 705–09)
Disc. and closure 283
Resistance Type Metal Heaters, Photoelectric Control of. Vedder, Evans. (June 1935, p. 645–50)
Disc. and closure 189
Resistance Welding Circuit, The. Pfeiffer 868–73
Resistances to Ground, Calculations of. Dwight 1319–28
Resistivity and Geological Structure, Earth. Card. (Nov. 1935, p. 1153–61)
Disc. 836
Resolution of Surges Into Multivelocity Components. Bewley. (Nov. 1935, p. 1199–1203)
Disc. and closure 903
Revised Sphere-Gap Spark-Over Voltages. (Com. rept.) 783
Letter 1046
Rotating Machines, Hydrogen Cooling of. Laffoon 703–9
Disc. 1243
Rotating Machines, Switching Surges in. Calvert, Fielder 376–84
Salient Pole Motors Out of Synchronism. Lauder 636–49
Disc. and closure 1247

S

St. Lawrence With Unstressed Cable Lengths, Crossing the. Mace, Thicke 164–7
Science, What's Next in. Compton 436–7
Segregation of Losses in Single Phase Induction Motors. Veinott. (Dec. 1935, p. 1302–06)
Disc. and closure 810
Self-Excitation of a Frequency Converter. Hess. (Dec. 1935, p. 1359–66)
Disc. and closure 894
Letters 940
Self-Regulated Compounded Rectifiers. Goodhue, Power 1200–05
Shock Effects of Frequency, Electric. Kouwenhoven, Hooker, Lotz 384–6
(Shock) Electrical Studies of Living Tissue. Conrad, Teare, Haggard. 768–72
Shock on the Heart, Effect of Electric. Ferris, King, Spence, Williams 498–515
Disc. and closure 1263
Signaling Facilities of the Teletypewriter Exchange Systems, Switchboards and. Knowlton, Locke, Singer 1015–25
Silicon Steel in Communication Equipment. Crawford, Thomas. (Dec. 1935, p. 1348–53)
Disc. and closure 883
Silk Thread Diameter, Electrical Measurement of. Shuck 991–6
Similarity Relations in Electrical Engineering. Brainerd, Neufeld. (March 1935, p. 268–72)
Letter 310
Sinusoidal Traveling Waves. Weber, Kulman 245–51
Sliding Contacts—Electrical Characteristics. Baker 94–100
Disc. and closure 821
Social Progress, Research and. Kettering 324–8
Some Applications of Instrument Transformers. Knopp 480–9
Disc. and closure 1257
Some Lighting Features at the Great Lakes Exposition 1304–05
Sound Level Meters, Tentative Standards for. McCurdy 260–3
(Sound Measurements) The Calibration of Microphones. (Com. rept.) 241–5
Spark Lag of the Sphere Gap. Tilles. (Aug. 1935, p. 868–76)
Disc. and closure 290
Sparkless Sphere Gap Voltmeter, The. Sorensen, Hobson, Ramo. (June 1935, p. 651–6; disc. Sept. 1935, p. 1002)
Disc. and closure 293
Sparkless Sphere Gap Voltmeter—II, The. Sorensen, Ramo 444–7
Disc. and closure 1265
Spark-Over Voltages, Revised Sphere-Gap. (Com. rept.) 783
Special Tests on Impulse Circuit Breakers. Skeats 710–17
Disc. and closure 1256
Speed Transients of D-C Rolling Mill Motors. Umansky, Linville. (Apr. 1935, p. 387–94)
Disc. and closure 172
Sphere Gap, Spark Lag of the. Tilles. (Aug. 1935, p. 868–76)
Disc. and closure 290
Sphere-Gap Spark-Over Voltages, Revised. (Com. rept.) 783
Sphere Gap Voltmeter, The Sparkless. Sorensen, Hobson, Ramo. (June 1935, p. 651–6; disc. Sept. 1935, p. 1002)
Disc. and closure 293
Sphere Gap Voltmeter—II, The Sparkless. Sorensen, Ramo 444–7
Disc. and closure 1265
Split Phase Starting of 3-Phase Motors. Tracy, Wyss. (Oct. 1935, p. 1068–72)
Disc. and closure 285
(Stability) Circuit Breakers for Boulder Dam Line. Prince. (Apr. 1935, p. 366–72)
Disc. and closure 196, 269
(Stability) Fault and Out-of-Step Protection of Lines. Braley, Harvey. (Feb. 1935, p. 189–200)
Disc. and closure 197
Stability of Cable Insulation, Studies of. Halperin, Betser 1074–82
(Stability) Resolution of Surges Into Multivelocity Components. Bewley. (Nov. 1935, p. 1199–1203)
Disc. and closure 903
(Stability) Steady State Solution of Saturated Circuits. Beckwith. (July 1935, p. 728–34)
Disc. and closure 282
(Standards) Definitions of Power and Related Quantities. Curtis, Silsbee. (Apr. 1935, p. 394–404; disc. Oct. 1935, p. 1120)
Disc. and closure 182
Standards for Sound Level Meters, Tentative. McCurdy 260–3
(Standards) Revised Sphere-Gap Spark-Over Voltages. (Com. rept.) 783
Static Thermionic Tube Frequency Changer, A. Schmidt. (Oct. 1935, p. 1063–7)
Disc. and closure 407
Steady State Solution of Saturated Circuits. Beckwith. (July 1935, p. 728–34)
Disc. and closure 282
(Steam Electric) Design and Operation of Huntley Station No. 2. Cushing. (June 1935, p. 632–45; disc. Sept. 1935, p. 996)
Disc. and closure 172
Steel in Communication Equipment, Silicon. Crawford, Thomas. (Dec. 1935, p. 1348–53)
Disc. and closure 883
Steel Industry, Electrical Developments in the. Wright 1168–73
Steel Mill Service, D-C Circuit Breakers for. Deans. (June 1935, p. 594–8)
Disc. 170
(Steel Mill) Speed Transients of D-C Rolling Mill Motors. Umansky, Linville. (Apr. 1935, p. 387–94)
Disc. and closure 172
Steel Plants, Electric Power Equipment for. Wright. (May 1935, p. 481–5)
Disc. and closure 170
Steinmetz, An Engineering View of and From. Swope 572–4
Storage Battery Charging. Woodbridge. (May 1935, p. 516–25)
Disc. and closure 190
Stray Load Loss Tests on Induction Machines—II. Morgan, Siegfried 493–7
Disc. and closure 1248
Studies of Stability of Cable Insulation. Halperin, Betser 1074–82
Supervisory Control and Remote Metering. Duer 70–5
Disc. 890
Surge Currents in Protective Devices. Opsahl. (Feb. 1935, p. 200–04)
Disc. 199
Surge Protectors for Current Transformers. Camilli, Bewley 254–60
Surges in Rotating Machines, Switching. Calvert, Fielder 376–84
Surges Into Multivelocity Components, Resolution of. Bewley. (Nov. 1935, p. 1199–1203)
Disc. and closure 903
Switchboards and Signaling Facilities of the Teletypewriter Exchange System. Knowlton, Locke, Singer. 1015–25
Switching Surges in Rotating Machines. Calvert, Fielder 376–84
(Symmetrical Components) Analysis of Unsymmetrical Machines. Lyon, Kingsley 471–6
Disc. 1247
(Synchronous Machines) Hydrogen Cooling of Rotating Machines. Laffoon 703–09
Disc. 1243
Synchronous Machines, Load Losses in Salient Pole. Pollard. (Dec. 1935, p. 1332–40)
Disc. 809
Synchronous Machines, Negative-Sequence Reactance of. Thomas 1378–85
(Synchronous Machines) Salient Pole Motors Out of Synchronism. Lauder 636–49
Disc. and closure 1247
(Synchronous Machines) Test Values of Armature Leakage Reactance. Rogers. (July 1935, p. 700–05)
Disc. 284
Synchronous Machines, Tests on Armature Resistance of. Robertson. (July 1935, p. 705–09)
Disc. and closure 283
Synchronous Mechanical Rectifier-Inverter—II. Seyfert, Hibahman, Bomberger 548–53
Disc. and closure 1244
Synchronous Motors, "Angle Switching" of. Shutt, Dawson. (Nov. 1935, p. 1191–5)
Disc. and closure 895
Synchronous Motors, Pull-In Characteristics of. Shoults, Crary, Lauder. (Dec. 1935, p. 1385–95)
Disc. and closure 896

T

Telephone Noise and Power Wave Shape, Measurement of. Barstow, Blye, Kent. (Dec. 1935, p. 1307–14)
Disc. and closure 818

Telephotograph System, A New. Reynolds 998–1007
Teletypewriter Exchange Service, A Transmission Service for. Bemis, Pierce 961–70
Teletypewriter Exchange System, Switchboards and Signaling Facilities of the. Knowlton, Locke, Singer 1015–25
Tensor—A New Engineering Tool, The. Boyajian 856–62
Tensor Algebra in Transformer Circuits. Bewley 1214–19
Tensor Analysis of Multielectrode-Tube Circuits. Kron 1220–42
(Tensor Analysis) Salient Pole Motors Out of Synchronism. Lauder ... 636–49
Disc. and closure 1247
Tentative Standards for Sound Level Meters. McCurdy 260–3
Test Values of Armature Leakage Reactance. Rogers. (July 1935, p. 700–05)
Disc. 284
Tests of Explosion-Proof Motors, Inspection and. Nuckolls 151–8
Tests, Oil Circuit Breaker and Voltage Recovery Rates. Poitras, Kuehni, Skeats. (Feb. 1935, p. 170–8)
Disc. and closure 193, 269
Tests on Armature Resistance of Synchronous Machines. Robertson. (July 1935, p. 705–09)
Disc. and closure 283
Tests on Impulse Circuit Breakers, Special. Skeats 710–17
Disc. and closure 1256
Tests on Lightning Protection for A-C Rotating Machines. Hunter. 137–44
Disc. and closure 1035
Tests on Oil Impregnated Paper. Race 590–9
Disc. and closure 1140
Texas Centennial Central Exposition, Electrical Features of the. Fies. 1060–74
Thermal Fuse for Network Protectors, A New. Nettleton 1096–9
Thermionic Tube Frequency Changer, A. Schmidt, Griffith. (Oct. 1935, p. 1063–7)
Disc. and closure 407
Thermocouple Ammeter, The Compensated. Goodwin 23–33
Disc. and closure 407
Thunderstorms, Fields Caused by Remote. Gould 575–82
Disc. and closure 1271
Time-Temperature Tests to Determine Machine Losses. Ross. (May 1935, p. 512–15; disc. Oct. 1935, p. 1107)
Disc. and closure 285
Today's Trends in Lighting. Powell. 1100–10
Torque in a Bipolar Induction Meter. Morton 354–8
Disc. 893
Transformer Circuit Impedance Calculations. Garin, Paluev 717–30
Disc. and closure 1270
Transformer Circuits, Tensor Algebra in. Bewley 1214–19
Transformer Lightning Protection Practices, Distribution. Smith .. 47–53
Disc. and closure 911
Transformer Regulation, An Exact Formula for. Clem 466–71
Disc. and closure 1274
Transformer to Protect Power Station Communication, Neutralising. George, Honaman, Lockrow, Schwartz 524–9
Transformers, for 287.5-Kv Service, Power. James, Vogel 438–44
Disc. 1274
Transformers, Frequency Tripling. Cantwell 784–90
Disc. 1039
Transformers, High Power Audio. Peters 34–6
Disc. and closure 889
Transformers, Improvements in Communication. Gans, Laird. (Dec. 1935, p. 1367–73)
Disc. and closure 890
Transformers, Lightning Protection for. (Com. rept.) 53–6
Disc. 918
Transformers, Lightning Protection of Distribution. Flanigen. (Dec. 1935, p. 1400–05)
Disc. and closure 909
Transformers, Overrefined Oils in Power. Ford 371–5
Transformers, Some Applications of Instrument. Knopp 480–9
Disc. and closure 1257
Transformers, Surge Protectors for Current. Camilli, Bewley 254–60
Transformers With Concentric Windings, Power. Paluev 649–59
Disc. and closure 1272
Transient Visualizers, Electronic. Reich 1314–18
Transient Voltages in Rotating Machines. Hunter. (June 1935, p. 599–603)
Disc. and closure 174
Transients of D-C Rolling Mill Motors, Speed. Umansky, Linville. (Apr. 1935, p. 387–94)
Disc. and closure 172
Translator System, A Cable Code. Connery. (Nov. 1935, p. 1162–66)
Disc. and closure 819
(Transmission) A Criterion of Quality of Cable Insulation. Wyatt, Spring. (Apr. 1935, p. 417–21)
Disc. and closure 204
(Transmission) A New Carrier-Current Coupling Capacitor. Eby. (Aug. 1935, p. 484–52)
Disc. and closure 281
(Transmission) Automatic Boosters on Distribution Circuits. Olmsted .. 1083–96
(Transmission) Cable and Damper Vibration Studies. Pipes 600–14
Disc. and closure 1149
(Transmission) Cable Vibration—Methods of Measurement. Carroll, Koontz 490–7
Disc. and closure 1147
(Transmission) Calculations of Resistances to Ground. Dwight 1319–28
(Transmission) Carrier Relaying and Rapid Reclosing at 110 Kv. Pierce, Powers, Stewart, Heberlein 1120–9
(Transmission) Circuit Breakers for Boulder Dam Line. Prince. (Apr. 1935, p. 366–72)
Disc. and closure 196, 269
(Transmission) Circuit Breakers for Boulder Dam Line. Wilcox, Leeds 626–35
Disc. and closure 1250
(Transmission) Corona Losses at 230 Kv With One Conductor Grounded. Carroll, Simmons. (Aug. 1935, p. 846–7)
Disc. 906
(Transmission) Crossing the St. Lawrence With Unstressed Cable Lengths. Thicke, Mace 164–7
(Transmission) Economical Loading of Underground Cables. Church. (Nov. 1935, p. 1166–72)
Disc. and closure 396
(Transmission) Engineering Features of the Boulder Dam-Los Angeles Lines. Scattergood. (May 1935, p. 494–512)
Disc. and closure 200, 282
(Transmission) Equivalent Circuits—2 Coupled Circuits. Balsbaugh, Douglass, Gow, Leal 366–71
Disc. 1037
(Transmission) Experiences With a Modern Relay System. Gerell ... 1130–6
(Transmission) Fault and Out-of-Step Protection of Lines. Braley, Harvey. (Feb. 1935, p. 189–200)
Disc. and closure 197
(Transmission) Fields and Charges About a Conductor. Hoover 448–54
Disc. and closure 1269
(Transmission) Impedance Measurements on Underground Cables. Webb, Mans 359–65
Disc. and closure 1138
(Transmission) Laboratory Studies of Conductor Vibration. Carroll ... 543–7
Disc. and closure 1148
(Transmission) Lightning Currents in Field and Laboratory. Bellaschi. (Aug. 1935, p. 837–43)
Disc. and closure 393
(Transmission) Lightning Investigation on a 220-Kv System—II. Bell 1306–13
Transmission Lines, Flashovers on. Bewley 342–54
Disc. and closure 1136
Transmission Lines, Lightning Investigation on. Lewis, Foust. (Sept. 1935, p. 934–42)
Disc. and closure 274
Transmission Lines, Modernization of. (Com. rept.) 14–18
Disc. 919
(Transmission) Modernization of Power Distribution System. Seelye 75–84
Disc. and closure 914
(Transmission) Modernization of Relay Systems. Muller, Turner ... 56–62
Disc. 922
(Transmission) Porcelain for High Voltage Insulators. Rowland 618–26
Disc. and closure 1142
(Transmission) Power Company Service to Arc Furnaces. Clark. (Nov. 1935, p. 1173–8)
Disc. 412
(Transmission) Power Transformers for 287.5-Kv Service. James, Vogel 438–44
Disc. 1274
(Transmission) Remote Metering and Automatic Load Control. Logan. 40–7
Disc. and closure 891
(Transmission) Resolution of Surges Into Multivelocity Components. Bewley. (Nov. 1935, p. 1199–1203)
Disc. and closure 903
(Transmission) Sinusoidal Traveling Waves. Weber, Kulman 245–51
(Transmission) Special Tests on Impulse Circuit Breakers. Skeats .. 710–17
Disc. and closure 1256
(Transmission) Steady State Solution of Saturated Circuits. Beckwith. (July 1935, p. 728–34)
Disc. and closure 282
(Transmission) Studies of Stability of Cable Insulation. Halperin, Betser 1074–82
Transmission System for Teletypewriter Exchange Service, A. Pierce, Bemis 961–70
(Transmission) Tests on Oil Impregnated Paper. Race 590–9
Disc. and closure 1140
(Transmission) 287-Kv Boulder Dam Disconnecting Switches. Bowie, Garman 582–9
(Transmission) Vibration of Cables and Dampers—I. Sturm 455–65
Disc. and closure 1147
(Transmission) Vibration of Cables and Dampers—II. Sturm 673–88
Disc. and closure 1147
(Transportation) Development of the All-Service Vehicle. Schreiber .. 238–40
(Transportation) Diesel Electric Motive Power for Railroads. Candee. (Aug. 1935, p. 863–8)
Disc. and closure 294

(Transportation) Electrical Apparatus for Diesel Cars and Locomotives. Smith 335–41
Disc. 1385
(Transportation) Locomotive to Caboose Radio Communication. Ellis 109–13
Disc. and closure 825
(Transportation) The "Bivray" System of Electric Platforms for Mass Transit. Storer. (Dec. 1935, p. 1340–7)
Disc. and closure 822
(Transportation) The "Comet"—A Diesel Electric Unit Train. (Nov. 1935, p. 1240–45)
Disc. and closure 819
Traveling Waves, Sinusoidal. Weber, Kulman 245–51
(Trolley Coach) Development of the All-Service Vehicle. Schreiber .. 236–40
Tube, A Cold-Cathode Arc-Discharge. Germeshausen, Edgerton 790–4; 809
Tube Circuits, Tensor Analysis of Multielectrode. Kron 1220–42
(Tubes, Igniter-Type Mercury-Cathode) New Developments in Ignitron Welding Control. Dawson .. 1371–7
287-Kv Boulder Dam Disconnecting Switches. Bowie, Garman 582–9
Two Methods of Mapping Flux Lines. Godsey. (Oct. 1935, p. 1032–6)
Disc. and closure 826
Letter 1287

U

Ultraviolet on Breakdown Voltage, Effect of. Nord. (Sept. 1935, p. 955–8)
Disc. and closure 272
Units, IEC Adopts MKS System of. Kennelly. (Dec. 1935, p. 1373–84)
Disc. and closure 831
Unsymmetrical Machines, Analysis of. Lyon, Kingsley 471–6
Disc. 1247

V

Vector Potential, The Magnetic. McRae 534–42
Disc. and closure 1270
Vectors in 3-Phase Circuits, Complex. Sah 1356–64
Vibration, Laboratory Studies of Conductor. Carroll 543–7
Disc. and closure 1148
Vibration—Methods of Measurement, Cable. Carroll, Koontz 490–7
Disc. and closure 1147
Vibration of Cables and Dampers—I. Sturm 455–65
Disc. and closure 1147
Vibration of Cables and Dampers—II. Sturm 673–88
Disc. and closure 1147
Vibration Studies, Cable and Damper. Pipes 600–14
Disc. and closure 1149
Vibratorily Commutated Stationary Conversion. Southgate. (Nov. 1935, p. 1213–21)
Disc. and closure 404
Visualizers, Electronic Transient. Reich 1314–18
Voltage, Effect of Ultraviolet on Breakdown. Nord. (Sept. 1935, p. 955–8)
Disc. and closure 272
Voltage Loci in 3-Phase Delta-Delta Circuits, Current and. Seletsky, Sibila 476–9
Voltage Recovery Tests, Oil Circuit Breaker and. Poitras, Kuehni, Skeats. (Feb. 1935, p. 170–8)
Disc. and closure 193, 269
Voltage Regulator, A D-C Controlled. Odessey 956–60
Voltages Chopped on Front, Impulse. Bellaschi 985–90
Voltages, The Production of Impulse Test. Sprague. (Oct. 1935, p. 1100–04)
Disc. and closure 271
Voltmeter, The Sparkless Sphere Gap. Sorensen, Hobson, Ramo. (June 1935, p. 651–6; disc. Sept. 1935, p. 1002)
Disc. and closure 293
Voltmeter, The Sparkless Sphere Gap —II. Sorensen, Ramo 444–7
Disc. and closure 1265

W

Waterworks Systems, Electrical Equipment for. Canariis 36–40
Disc. and closure 1039
Watt-Hour Meter, A New. Green. (Oct. 1935, p. 1073–84)
Disc. and closure 289
Watt on the Central Station Industry, The Influence of James. Orrok .. 358
(Wave Form) Analysis of Rectifier Filter Circuits. Stout. (Sept. 1935, p. 977–84)
Disc. and closure 280
Wave Shape, Measurement of Telephone Noise and Power. Barstow, Blye, Kent. (Dec. 1935, p. 1307–14)
Disc. and closure 818
Waves, Sinusoidal Traveling. Weber, Kulman 245–51
Welding Circuit, The Resistance. Pfeiffer 868–73
Welding Control, New Developments in Ignitron. Dawson 1371–8
"What Is Electricity?" Heyl 4–11
What's Next in Science? Compton .. 436–7
Why the Engineer? Durand 1301–3
Windings, Magnetic Fields in Machinery. Douglas. (Sept. 1935, p. 959–66)
Disc. and closure 287
Work of the Institute's Committees, The. MacCutcheon 1299–1300
Young Engineer Under Changing Conditions, The. Hellmund 329–34
Disc. and closure 1151

Division II—Author Index

Adams, C. A. Disc 187
Alger, P. L. Disc 179
Anderson, A. E. Disc 890
Anderson, H. W. Disc. closure (Effect of Total Voltage on Breakdown in Vacuum. Dec. 1935, p. 1315–20) 831
Anderson, H. W. Disc 404, 826
Arapakis, G. H. Disc 204
Arkenburgh, W. H. Disc 825
Arthur, R. B. Disc 893
Atkinson, R. W. Disc 207
Austin, A. O. Disc 201

B

Babb, M. A. Disc 1145
Bagai, M. M.; Dwight. Disc. closure (Calculations for Coreless Induction Furnaces. March 1935, p. 312–15) 189
Baker, R. M. Sliding Contacts—Electrical Characteristics 94–100
Disc. closure 822
Baker, R. M. Disc 406
Ball, R. D. (Letter) Equivalent Circuit of a Self-Excited Capacitor Generator 425
Balombin, Joseph A. (Letter) Calculating Power Factor in a 3-Phase Circuit 217
Balsbaugh, J. C.; Douglass; Gow; Leal. Equivalent Circuits—2 Coupled Circuits 3666–71
Bancker, E. H. Disc 198, 922
Bancker, E. H.; Traver. A Faster Carrier Pilot Relay System 688–96
Banos, Alfredo. A-C Characteristics of Dielectrics—II 1329–37
Bany, H.; Reagan. Automatic Control for Mercury Arc Rectifiers .. 100–09
Barstow, J. M.; Blye; Kent. Disc. closure (Measurement of Telephone Noise and Power Wave Shape. Dec. 1935, p. 1307–14) .. 818
Barton, J. P. Disc 883, 887, 890
Beckwith, Sterling. Disc. closure (Steady State Solution of Saturated Circuits. July 1935, p. 728–34) 283
Beckwith, Sterling. Disc 287
Beese, N. C.; Marden; Meister. High-Intensity Mercury-Arc Lamps .. 1186–90
Bell, Edgar. Lightning Investigation on a 220-Kv System—II 1306–13
Bellaschi, P. L. Impulse Voltages Chopped on Front 985–90
Bellaschi, P. L. Disc. closure (Lightning Currents in Field and Laboratory. Aug. 1935, p. 837–43) ... 395
Bellaschi, P. L. Disc. ..199, 272, 399, 816, 826, 919, 1137, 1267, 1272, 1274
Bemis, E. W.; Pierce. A Transmission System for Teletypewriter Exchange Service 961–70
Benedict, R. R. Disc 1269
Bennett, J. W. Disc 204, 916
Berberich, L. J. Measuring Equipment for Oil Power Factor 264–8
Disc. closure 1261
Berberich, L. J. Disc 1140
Berkey, W. E. Disc 279
Bethenod, Joseph; Roth. (Letter) Two Methods of Mapping Flux Lines 1287
Betser, C. E.; Halperin. Studies of Stability of Cable Insulation 1074–82
Bewley, L. V. Flashovers on Transmission Lines 342–54
Disc. closure 1137
Bewley, L. V. Tensor Algebra in Transformer Circuits 1214–19
Bewley, L. V. Disc. closure (Resolution of Surges Into Multivelocity Components. Nov. 1935, p. 1199–1203) 903
Bewley, L. V. Disc. 174, 192, 921, 1247
Bewley, L. V.; Camilli. Surge Protectors for Current Transformers. 254–60
Bibber, H. W. Disc 181
Biegler, P. S. Disc 1152
Black, C. H. Disc 171
Blye, P. W. Disc 1039
Blye, P. W.; Kent; Barstow. Disc. closure (Measurment of Telephone Noise and Power Wave Shape. Dec. 1935, p. 1307–14) .. 818
Boehne, E. W. Disc. closure (The Determination of Circuit Recovery Rates. May 1935, p. 530–9) 269
Bomberger, D. C.; Seyfert; Hibshman. Synchronous Mechanical Rectifier-Inverter—II 548–53
Disc. closure 1245
Borden, P. A. Disc 1039
Bousman, H. W. Disc 1260
Bowie, A. J.; Garman. 287-Kv Boulder Dam Disconnecting Switches 582–9
Boyajian, A. The Tensor—A New Engineering Tool 856–62
Bosorth, R. M. Disc. closure (Present Status of Ferromagnetic Theory. Nov. 1935, p. 1251–61) 885
Brahdy, Alfred. Disc 823
Brainerd, J. G.; Neufeld. (Letter) Relations in Electrical Engineering 310

Note—An asterisk (*) before a page number denotes publication of individual's picture on that page.

Braley, H. D.; Harvey. Disc. closure (Fault and Out-of-Step Protection of Lines. Feb. 1935, p. 189–200) 199
Brazier, C. G.; Robinson. Disc. 207
Brecht, W. A. Disc. 813
Bretch, Edward. (Letter) Capacitor Motor With Double Cage Rotor. 310
Brooks, H. B. Disc. 289
Brownlee, Theodore. Disc. 271, 837
Brownlee, W. R.; George. Disc. closure (Pilot Wire Relay Protection. Nov. 1935, p. 1262–9) 908
Brunetti, Cledo. Operational Solution of Electric Circuits 158–64
Brylinski, E. Disc. 184
Buchanan, W. B. Disc. 1147, 1148, 1149
Budeanu, C. Disc. 182
Buehl, R. C. Disc. 897
Bullard, W. R. Disc. 917
Bush, Vannevar. The Measure of an Engineer 854
Bush, Vannevar. Disc. 1244
Buttolph, L. J. High-Efficiency Gaseous-Conduction Lamps 1174–80

C

Calabrese, Giuseppe. Performance of Distance Relays 660–72
Disc. closure 1255
Calabrese, Giuseppe. Disc. 198
Calvert, J. F. Disc. 175
Calvert, J. F.; Fielder. Switching Surges in Rotating Machines 376–84
Calvert, J. F.; Laffoon. Disc. closure (Insulation for High Voltage Alternators. June 1935, p. 624–31) 180
Calvert, J. F.; Roman. Disc. 1035
Camilli, G.; Bewley. Surge Protectors for Current Transformers. 254–60
Canarius, S. A. Electrical Equipment for Waterworks Systems 36–40
Disc. closure 1039
Candee, A. H. Disc. closure. (Diesel Electric Motive Power for Railroads. Aug. 1935, p. 863–8) 296
Candee, A. H. Disc. closure (The "Comet"—A Diesel Electric Unit Train. Nov. 1935, p. 1240–5) 819
Canfield, D. T. Disc. 289
Cantwell, J. L. Frequency Tripling Transformers 784–90
Carroll, J. S. Laboratory Studies of Conductor Vibration 543–7
Disc. closure 1149
Carroll, J. S.; Koonts. Cable Vibration-Methods of Measurement 490–7
Disc. closure 1147
Chesney, C. C.; Scott. Early History of the A-C System in America. *228–35
Chesnut, F. T. Disc. 415
Chubb, L. W. Disc. 824
Church, E. A. Disc. and closure (Economical Loading of Underground Cables. Nov. 1935, p. 1166–72) 399
Cioffi, P. P. Disc. 883
Cissna, V. J. (Letter) A Voltage Regulation Diagram for Constant Sending Voltage 562
Clark, F. M. Disc. 902
Clem, J. E. An Exact Formula for Transformer Regulation 466–71
Disc. closure 1275
Cobine, J. D. Disc. 1269
Compton, K. T. What's Next in Science? 436–7
Connery, A. F. Disc. closure (A Cable Code Translator System. Nov. 1935, p. 1162–6) 819
Conrad, A. G.; Teare; Haggard, Electrical Studies of Living Tissue 768–72
Copley, S. W. Disc. 1250
Corney, C. A. Disc. 917
Crary, S. B.; Lauder; Shoults. Disc. closure (Pull-In Characteristics of Synchronous Motors. Dec. 1935, p. 1385–95) 898
Crary, S. B.; Lauder; Shoults. Disc. 895
Crawford, C. H.; Thomas. Disc. closure (Silicon Steel in Communication Equipment. Dec. 1935, p. 1348–53) 884
Cree, J. G. Disc. 911
Crichton, L. N. Disc. 925
Curtis, H. L. Disc. 831
Curtis, H. L.; Silsbee. Disc. closure (Definitions of Power and Related Quantities. Apr. 1935, p. 394–404) 186
Cushing, H. M. Disc. closure (Design and Operation of Huntley Station No. 2. June 1935, p. 632–45; disc. Sept. 1935, p. 996) 172

D

Dantsizen, C. Disc. 409
Davidson, W. F. Disc. 1138
Davidson, W. F.; Evans. Disc. 1141
Dawes, C. L. Disc. 833
Dawson, J. L. New Developments in Igniton Welding Control 1371–8
Dawson, J. W.; Shutt. Disc. closure ("Angle Switching" of Synchronous Motors. Nov. 1935, p. 1191–5) 896
Del Mar, W. A. (Letter) Installations of Hochstadter Pressure Cable 218
Del Mar, W. A. Disc. 204
Doan, G. E. Disc. 1151
Dodd, R. L. Disc. 204
Doggett, L. A. Disc. 1151
Doggett, L. A.; Tarpley. Disc. closure (Power and Energy, Positive and Negative. Nov. 1935, p. 1204–9) 411
Douglas, J. Andrew. (Letter) Mr. Canby's "Alma Mater" 425
Douglas, J. F. H. Disc. closure (Magnetic Fields in Machinery Windings. Sept. 1935, p. 959–66) 288
Douglas, J. F. H. Disc. 826, 1248, 1270, 1271
Douglass, W. P.; Gow; Leal; Balsbaugh. Equivalent Circuits—2 Coupled Circuits 366–71
Dow, W. G.; Powers. Disc. closure (Firing Time of an Igniter Type of Tube. Sept. 1935, p. 942–9) 280
Dubusc, Roger. Disc. 1256
Dudley, C. L. Disc. 412
Duer, J. V. B. Supervisory Control and Remote Metering 70–5
Durand, W. F. Why the Engineer? *1301–03
Dushman, Saul. Exploring the Atomic Nucleus 760–7
Dushman, Saul. (Letter) Exploring the Atomic Nucleus 1156
Dwight, H. B. Calculations of Resistances to Ground 1319–28
Dwight, H. B.; Bagai. Disc. closure (Calculations for Coreless Induction Furnaces. March 1935, p. 312–15) 189

E

Eaton, J. R. Disc. 276
Eby, E. D. Disc. closure (A New Carrier-Current Coupling Capacitor. Aug. 1935, p. 484–52) 281
Edgar, R. F. Disc. 887
Edgerton, H. E. Disc. 896
Edgerton, H. E.; Germeshausen. A Cold - Cathode Arc - Discharge Tube 790–4; 809
Ekvall, H. N. Disc. 910
Ellis, S. G. Locomotive to Caboose Radio Communication 109–13
Disc. closure 825
Elmen, G. W. Disc. closure (Magnetic Alloys of Iron, Nickel, and Cobalt. Dec. 1935, p. 1292–9) 888
Elmer, W. B. Disc. 916
Elmer, W. B.; Haines. Disc. 905, 911
Eshbach, O. W.; King. Engineering Education—Opinions and Influencing Factors 730–4
Disc. closure 1147
Evans, M. S.; Vedder. Disc. closure (Photoelectric Control of Resistance Type Metal Heaters. June 1935, p. 645–50) 190
Evans, R. D. Disc. 201
Evans, R. N.; Davidson. Disc. 1141

F

Faus, H. T. (Letter) Registration of Engineers 217
Faus, H. T. Disc. 886
Ferris, L. P.; King; Spence; Williams. Effect of Electric Shock on the Heart 498–515
Disc. and closure 1264
Fielder, F. D.; Calvert. Switching Surges in Rotating Machines 376–84
Fies, John. Electrical Features of the Texas Centennial Central Exposition 1060–74
Fitzgerald, E. B. Disc. 1387
Flanigen, J. M. Disc. closure (Lightning Protection of Distribution Transformers. Dec. 1935, p. 1400–05) 911
Fleischmann, Lionel. (Letter) Self-Excitation of a Frequency Converter 940
Ford, J. G. Overrefined Oils in Power Transformers 371–5
Fortescue, C. L. Disc. 186, 192, 201, 274
Foust, C. M. Disc. 270, 393, 814, 903
Foust, C. M.; Lewis. Disc. closure (Lightning Investigation on Transmission Lines—V. Sept. 1935, p. 934–42) 279
Franklin, C. W. Disc. 396
Frier, C. H. A Disturbance Duration Recorder 1025–8
Frier, C. H. Disc. 907, 924
Frost, L. E. Disc. 178

G

Ganz, A. G.; Laird. Disc. closure (Improvements in Communication Transformers. Dec. 1935, p. 1367–73) 890
Gardner, M. F. Disc. 827
Garin, A. N.; Paluev. Transformer Circuit Impedance Calculations. 717–30
Disc. closure 1270
Garman, C. P.; Bowie. 287-Kv Boulder Dam Disconnecting Switches 582–9
Gay, F. W. Disc. 179
George, E. E. (Letter) Neutralizing Transformers for Pilot Wire Protection 121
George, E. E. Disc. 891, 896, 911
George, E. E.; Brownlee. Disc. closure (Pilot Wire Relay Protection. Nov. 1935, p. 1262–9) 908
George, E. E.; Honaman; Lockrow; Schwarts. Neutralizing Transformer to Protect Power Station Communication 524–9
George, R. H.; Heim; Mayer; Roys. Disc. closure (A Cathode Ray Oscillograph for Observing 2 Waves. Oct. 1935, p. 1095–1100) 271
Germeshausen, K. J.; Edgerton. A Cold - Cathode Arc - Discharge Tube 790–4; 809
Gerell, G. W. Experiences With a Modern Relay System 1130–6
Gilkeson, C. L. Disc. 836, 1138
Glendinning, William. Disc. 1274
Godsey, F. W. Disc. closure (Two Methods of Mapping Flux Lines. Oct. 1935, p. 1032–6) 826
Goldsborough, S. L.; Smith. A New Distance Ground Relay 697–703
Disc. closure 1256

Goodhue, W. M.; Power. Self-Regulated Compounded Rectifiers 1200–05
Goodwin, W. N., Jr. The Compensated Thermocouple Ammeter 23–33
Disc. closure 408
Goss, J. H. Disc. 408
Gould, K. E. Fields Caused by Remote Thunderstorms 575–82
Disc. closure 1271
Gow, R. B.; Leal; Balsbaugh; Douglas. Equivalent Circuits—2 Coupled Circuits 366–71
Green, Stanley. Disc. closure (A New Watt-Hour Meter. Oct. 1935, p. 1073–84) 290
Green, Stanley. Disc. 1258
Greenfield, E. W. Disc. 901
Griffith, R. C.; Schmidt. Disc. closure (A Static Thermionic Tube Frequency Changer. Oct. 1935, p. 1063–7) 407
Gross, I. W. Disc. 400, 918
Gross, I. W.; Sporn. Lightning Arrester Economics 84–93
Disc. closure 817
Grosser, E. H.; Halperin. Lightning Investigations on a Distribution System 63–70
Disc. closure 906
Gulliksen, F. H. An Electronic Regulator for D-C Generators 873–5

H

Haggard, H. W.; Conrad; Teare. Electrical Studies of Living Tissue 768–72
Haglund, H. H. Disc. 819
Hagy, B. E. Disc. 194
Haines, T. H. Disc. 816
Haines, T. H.; Elmer. Disc. 905, 911
Halberg, M. N. Disc. 898
Halperin, Herman. Disc. ..397, 402, ... 814, 817, 902, 910, 913, 1140
Halperin, Herman; Betser. Studies of Stability of Cable Insulation ..1074–82
Halperin, Herman; Grosser. Lightning Investigations on a Distribution System 63–70
Disc. closure 906
Halvorson, C. A. B. Highway Lighting—Principles and Sources 735–46
Hambleton, T. T. Disc. 821
Hammond, H. P. (Letter) Professional Aspects of Engineering Education 1045
Hansell, C. W.; Harrington. Disc. closure (The Hawaiian Radiotelephone System. Aug. 1935, p. 822–8) 290
Hansson, Edwin 922
Harder, E. L.; Smith; Lewis. Disc. 1252
Harrell, F. E.; Hough. Disc. closure (D-C Braking of Induction Motors. May 1935, p. 488–93) 170
Harrington, W. I.; Hansell. Disc. closure (The Hawaiian Radiotelephone System. Aug. 1935, p. 822–8) 290
Hartenheim, Max. (Letter) Definition of Coercive Force. Hartenheim 939
Harvey, J. L.; Braley. Disc. closure (Fault and Out-of-Step Protection of Lines. Feb. 1935, p. 189–200) 199
Havill, O. A. (Letter) Dyadic Algebra Applied to 3-Phase Circuits 1287
Heberlein, G. E.; Pierce; Powers; Stewart. Carrier Relaying and Rapid Reclosing at 110 Kv 1120–9
Helm, H. J.; Mayer; Roys; George. Disc. closure (A Cathode Ray Oscillograph for Observing 2 Waves. Oct. 1935, p. 1095–1100) 271
Hellmund, R. E. The Young Engineer Under Changing Conditions 329–34
Disc. closure 1152
Hellmund, R. E. Disc. closure (Flashing of Railway Motors Caused by Brush Jumping. Nov. 1935, p. 1178–85) 813
Hellmund, R. E. Disc. ..168, 170, ..187, 190, 191, 196, 406, 407, 809, 811, 821, 832, 894, 1243, 1245, ... 1246, 1251
Hellmund, R. E.; McAulay. Disc. ..1266
Herskind, C. C. Disc. 404, 407, 837
Hess, Oscar. Disc. closure (Self-Excitation of a Frequency Converter. Dec. 1935, p. 1359–66) 895
Hess, Oscar. (Letter) Self-Excitation of a Frequency Converter 940
Hessler, V. P. Disc. closure (Electrical Brush Wear. Oct. 1935, p. 1050–4) 407
Heyl, P. R. "What Is Electricity?" 4–11
Hill, C. F. Disc. 401, 901
Hibshman, N. S.; Bomberger; Seyfert. Synchronous Mechanical Rectifier-Inverter—II 548–53
Disc. closure 1245
Higgins, Ralph; Rorden. The Control Gap for Lightning Protection .1029–34
Hobson, J. E.; Ramo; Sorensen. Disc. closure (The Sparkless Sphere Gap Voltmeter. June 1936, p. 651–6) 294
Hobson, J. E.; Vaile. Disc. 273
Hodnette, J. K. Disc. 905
Hoffman, D. C. Disc. 893
Holley, B. D. Disc. 904
Honaman, R. K. (Letter) Neutralising Transformers for Pilot Wire Protection 561
Honaman, R. K.; Lockrow; Schwartz; George. Neutralising Transformer to Protect Power Station Communication 524–9
Hooker, D. R.; Lots; Kouwenhoven. Electric Shock Effects of Frequency 384–6
Hoover, W. G. Fields and Charges About a Conductor 448–54
Disc. closure 1269
Hoover, W. G. Disc. 283
Hough, W. R.; Harrell. Disc. closure (D-C Braking of Induction Motors. May 1935, p. 488–93) .. 170
Howard, Alan; Stevenson. Disc. closure (An Advanced Course in Engineering. March 1935, p. 265–8) 182
Huie, O. J. Disc. 908
Hunter, E. M. Tests on Lightning Protection for A-C Rotating Machines 137–44
Disc. closure 1036
Hunter, E. M. Disc. closure (Transient Voltages in Rotating Machines. June 1935, p. 599–603) .. 177

J

Jaffe, D. L. (Letter) Solving for Components of Complex Propagation Constant 1287
James, W. G.; Vogel. Power Transformers for 287.5-Kv Service 438–44
Jamison, J. S. Disc. 180
Jones, B. M. Disc. 908, 923
Jones, J. W. Disc. 921
Jones, W. C. Disc. 886

K

Kelker, R. F., Jr. Disc. 822
Kennelly, A. E. Disc. closure (IEC Adopts MKS System of Units. Dec. 1935, p. 1373–84) 834
Kennelly, A. E. Disc. 183
Kent, H. E.; Barstow; Blye Disc. closure (Measurement of Telephone Noise and Power Wave Shape. Dec. 1935, p. 1307–14) .. 818
Ketcham, H. H. (Letter) Modern Machines in Verse 1287
Kettering, C. F. Research and Social Progress 324–8
Kidder, A. H. Disc. 398
Kilgore, L. A. Disc. 282, 285, 809
Kimball, R. L. Disc. 819
Kimbark, E. W. Disc. 1037
King, B. G.; Spence; Williams; Ferris. Effect of Electric Shock on the Heart 498–515
Disc. closure 1264
King, Morland; Eshbach. Engineering Education—Opinions and Influencing Factors 730–4
Disc. closure 1147
King, W. R. Disc. 189
Kingsley, Charles, Jr.; Lyon. Analysis of Unsymmetrical Machines 471–6
Klemperer, Hans. Heater-Cathode Insulation Performance 981–5
Knopp, O. A. Some Applications of Instrument Transformers 480–9
Disc. closure 1259
Knopp, O. A. Disc. 289, 1261
Knowlton, A. D.; Locke; Singer. Switchboards and Signaling Facilities of the Teletypewriter Exchange System 1015–25
Knowlton, A. E. Disc. 410
Koontz, J. A., Jr.; Carroll. Cable Vibration—Methods of Measurement 490–7
Disc. closure 1147
Koopman, R. J. W.; Reed. Induction Motors on Unbalanced Voltages 1206–13
Kositzky, G. A. Membership Letter. 1043
Kouwenhoven, W. B. Disc. 1264
Kouwenhoven, W. B.; Hooker; Lots. Electric Shock Effects of Frequency 384–6
Kron, Gabriel. Tensor Analysis of Multielectrode Tube Circuits 1220–42
Kron, Gabriel. Disc. 1270
Kroneberg, A. A. Disc. 924
Kuehni, H. P. Disc. 195
Kuehni, H. P.; Skeats; Poitras. Disc. closure (Oil Circuit Breaker and Voltage Recovery Tests. Feb. 1935, p. 170–8) 269
Kulman, F. E.; Weber. Sinusoidal Traveling Waves 245–51
Küpfmüller, K.; Quade. Disc. 186

L

Laffoon, C. M. Hydrogen Cooling of Rotating Machines 703–9
Laffoon, C. M.; Calvert. Disc. closure (Insulation for High Voltage Alternators. June 1935, p. 624–31) 180
Laird, A. G.; Gans. Disc. closure (Improvements in Communication Transformers. Dec. 1935, p. 1367–73) 890
Lauder, A. H. Salient Pole Motors Out of Synchronism 636–49
Disc. closure 1247
Lauder, A. H.; Shoults; Crary. Disc. 895
Lauder, A. H.; Shoults; Crary. Disc. closure (Pull-In Characteristics of Synchronous Motors. Dec. 1935, p. 1385–95) 898
Leal, A. H.; Balsbaugh; Douglass; Gow. Equivalent Circuits—2 Coupled Circuits 366–71
Lederer, K. M. Disc. 885, 887
Lee, E. S. Membership Activities 944–5
Lee, E. S. Membership Letters ..116, ... 213, 300, 558, 751, 839, 930
Leeds, W. M. Disc. 197
Leeds, W. M.; Wilcox. Circuit Breakers for Boulder Dam Line .. 628–35
Disc. closure 1252
Lemp, Herman. Disc. 1386
Leonard, S. C.; Race. Calorimetric Measurement of Dielectric Loss . 1347–56
Levy, C. C. Disc. 409
Lewis, W. A. Disc. 1254

Lewis, W. A.; Smith; Harder. Disc. 1252
Lewis, W. W. Disc. 906
Lewis, W. W.; Foust. Disc. closure (Lightning Investigation on Transmission Lines—V. Sept. 1935, p. 934–42) 279
Lincoln, P. M. Disc. 201, 823
Lindberg, W. A. Disc. 412
Linebaugh, J. J. Disc. 404
Linville, T. M.; Umansky. Disc. closure (Speed Transients of D-C Rolling Mill Motors. Apr. 1935, p. 387–94) 172
Little, D. G. Disc. 825
Lloyd, T. C.; Puchstein. (Letter) Zigzag Leakage 1155
Locke, G. A.; Singer; Knowlton. Switchboards and Signaling Facilities of the Teletypewriter Exchange System 1015–25
Lockrow, L. L.; Schwartz; George; Honaman. Neutralising Transformer to Protect Power Station Communication 524–9
Logan, J. T. Remote Metering and Automatic Load Control 40–7
Disc. closure 892
Longfield, C. M. Disc. 907
Lory, M. R. Disc. 894
Lots, E. L.; Kouwenhoven; Hooker. Electric Shock Effects of Frequency 384–6
Ludwig, L. R. Disc. 281
Ludwig, L. R.; Opsahl. Disc. 814, 817, 905, 913
Lunn, E. O. Induction Motors Under Unbalanced Condtions 387–93
Lusignan, J. T., Jr. Disc. 1137
Lyon, W. V.; Kingsley. Analysis of Unsymmetrical Machines 471–6

M

MacCarthy, D. D. Disc. 394
MacCutcheon, A. M. A Message from the President *951
MacCutcheon, A. M. A Message from the President 1059
MacCutcheon, A. M. The Privileges and Emoluments of a President 1167
MacCutcheon, A. M. The Work of the Institute's Committees 1299–1300
Mace, W. A.; Thicke. Crossing the St. Lawrence With Unstressed Cable Lengths 164–7
Mackeown, S. S. Disc. 1145
Maclachlan, Wills. Disc. 1263
Malsbary, J. S. Disc. 287
Malti, M. G. Disc. closure (A Generalized Infinite Integral Theorem. Nov. 1935, p. 1222–7) 829
Manz, O. W., Jr.; Webb. Impedance Measurements on Underground Cables 359–65
Disc. closure 1139
Marden, J. W.; Meister; Beese. High-Intensity Mercury-Arc Lamps 1186–90
Marquis, V. M. Disc. 892
Marsh, J. W. Disc. 1387
Mason, R. C. Disc. 290, 830
Maxwell, Howard. Disc. 1246
May, M. S. Disc. 406, 822
Mayer, H. T.; Koya; George; Heim. Disc. closure (A Cathode Ray Oscillograph for Observing 2 Waves. Oct. 1935, p. 1095–1100) 271
McAuley, P. H.; Hellmund. Disc. 1266
McCurdy, R. G. Tentative Standards for Sound Level Meters 260–3
McEachron, K. B. Disc. 200, 273, 276, 394, 904, 909
McEachron, K. B.; McMorris. Disc. closure (Discharge Currents in Distribution Arresters. Dec. 1935, p. 1395–9) 815
McGee, P. A. Disc. 819
McLean, True. Disc. 889
McMorris, W. A. Disc. 913
McMorris, W. A.; McEachron. Disc. closure (Discharge Currents in Distribution Arresters. Dec. 1935, p. 1395–99) 815
McPhee, G. M.; Robb; Millard. Dial Switching of Connecticut Toll Calls 773–83
McRae, J. W. The Magnetic Vector Potential 534–42
Disc. closure 1270
Meador, J. R. Disc. 1266
Meister, George; Beese; Marden. High-Intensity Mercury-Arc Lamps 1186–90
Meyer, E. B. Anniversaries 227
Meyer, E. B. Associates, Members, and Fellows 571
Meyer, E. B. Effective Co-ordination 131
Meyer, E. B. Effective Organization 855–6
Meyer, E. B. Institute Ideals 435
Meyer, E. B. Interest and Appreciation 759
Meyer, E. B. Looking Forward 3
Meyer, E. B. Professional Recognition 323
Meyer, J. Franklin. Disc. 1144
Michener, W. H. Disc. 832
Millar, P. S. The Qualities of Incandescent Lamps 516–23
Disc. closure 1146
Millard, A. M.; McPhee; Robb. Dial Switching of Connecticut Toll Calls 773–83
Miller, A. R.; Weil. Operational Solution of A-C Machines 1191–1200
Miller, J. H. Disc. 407
Monstinger, V. M. Disc. closure (Breakdown Curve for Solid Insulation. Dec. 1935, p. 1300–01) 403
Morgan, T. H.; Siegfried. Stray Load Loss Tests on Induction Machines—II 493–7
Disc. closure 1246
Mortensen, S. H. Disc. 1243
Morton, R. M. Torque in a Bipolar Induction Meter 354–8
Muller, C. A.; Turner. Modernization of Relay Systems 56–62
Murray, J. S. Disc. 883, 888, 890

N

Naeter, A. Disc. 1146
Neher, J. H. Disc. 197, 907
Nettleton, L. A. A New Thermal Fuse for Network Protectors 1096–9
Neufeld, J.; Brainerd. (Letter) Relations in Electrical Engineers 310
Newman, Morris. Disc. 291
Nims, A. A. Disc. 834, 837
Nord, G. L. Disc. closure (Effect of Ultraviolet on Breakdown Voltage. Sept. 1935, p. 955–8) 274
Norris, R. H. Disc. 1248
Nuckolls, A. H. Inspection and Tests of Explosion-Proof Motors 151–8

O

Odessey, P. H. A D-C Controlled Voltage Regulator 956–60
Olmsted, L. M. Automatic Boosters on Distribution Circuits 1083–96
Opsahl, A. M.; Ludwig. Disc. 814, 817, 905, 913
Orrok, G. A. The Influence of James Watt on the Central Station Industry 358
Osborne, R. W. (Letter) Neutralizing Transformers for Pilot Wire Protection 120
Owens, T. D. Disc. closure (Current Harmonics in Nonlinear Resistance Circuits. Oct. 1935, p. 1055–7) 837

P

Paluev, K. K. Power Transformers With Concentric Windings 649–59
Disc. closure 1272
Paluev, K. K.; Garin. Transformer Circuit Impedance Calculations 717–30
Disc. closure 1270
Penney, G. W. Hydrogen Cooling—With Near-Critical Velocities 530–4
Disc. closure 1250
Peskin, L. C. Disc. 1148
Peters, J. F. High Power Audio Transformers 34–6
Disc. closure 890
Phillips, L. A. Disc. 824
Pierce, R. E.; Bemis. A Transmission System for Teletypewriter Exchange Service 961–70
Pierce, R. E.; Powers; Stewart; Heberlein. Carrier Relaying and Rapid Reclosing at 110 Kv. 1120–9
Pfeiffer, C. L. The Resistance Welding Circuit 868–73
Pipes, L. A. Cable and Damper Vibration Studies 600–14
Disc. closure 1150
Poitras, E. J.; Kuehni; Skeats. Disc. closure (Oil Circuit Breaker and Voltage Recovery Tests. Feb. 1935, p. 170–8) 269
Poritsky, H. Disc. 188
Powel, C. A. Disc. 413, 1137, 1250
Powell, A. L. Today's Trends in Lighting 1100–10
Power, R. B.; Goodhue. Self-Regulated Compounded Rectifiers 1200–05
Powers, P. B. Disc. 813
Powers, R. E.; Stewart; Heberlein; Pierce. Carrier Relaying and Rapid Reclosing at 110 Kv. 1120–9
Powers, W. H.; Dow. Disc. closure (Firing Time of an Igniter Type of Tube. Sept. 1935, p. 942–9) 280
Pratt, W. H. Disc. 411
Prince, D. C. Disc. closure (Circuit Breakers for Boulder Dam Line. Apr. 1935, p. 366–72) 269
Prince, D. C. Disc. 193, 202, 1251
Puchstein, A. F. (Letter) Capacitor Motor With Double Cage Rotor 121
Puchstein, A. F.; Lloyd. (Letter) Zigzag Leakage 1155
Putnam, H. V. Disc. 912

Q

Quade, W.; Küpfmüller. Disc. 186

R

Race, H. H. Tests on Oil Impregnated Paper 590–9
Disc. closure 1142
Race, H. H. Disc. 178, 205, 1261
Race, H. H.; Leonard. Calorimetric Measurement of Dielectric Loss 1347–56
Rah, J. C. Disc. 177
Ramo, Simon; Sorensen. The Sparkless Sphere Gap Voltmeter—II 444–7
Disc. closure 1268
Ramo, Simon; Sorensen; Hobson. Disc. closure (The Sparkless Sphere Gap Voltmeter. June 1936, p. 651–6) 294
Reagan, M. E.; Bany. Automatic Control for Mercury Arc Rectifiers 100–09
Reed, H. R. (Letter) Voltage Regulation of Alternators 424
Reed, H. R.; Koopman. Induction Motors on Unbalanced Voltages 1206–13
Reich, H. J. Electronic Transient Visualizers 1314–18
Reynolds, F. W. A New Telephotograph System, A 996–1007
Robb, W. F.; Millard; McPhee. Dial Switching of Connecticut Toll Calls 773–83

Robertson, B. L. Disc. closure (Tests on Armature Resistance of Synchronous Machines. July 1935, p. 705–9) 284
Robertson, B. L. Disc. 284
Robinson, D. M.; Brazier. Disc. 207
Rogers, T. A. Disc. 283, 285
Roman, W. G.; Calvert. Disc. 1035
Romig, O. E. Disc. 886
Roper, D. W. Disc. 206, 1261
Rorden, H. L.; Higgins. The Control Gap for Lightning Protection. 1029–34
Rosenberg, L. T. Disc. 286
Ross, M. D. Disc. closure (Time-Temperature Tests to Determine Machine Losses. May 1935, p. 512–15) 285
Ross, M. D. Disc. 179, 1243
Roth, Edouard; Bethenod. (Letter) Two Methods of Mapping Flux Lines. 1287
Rowland, D. H. Porcelain for High Voltage Insulators. 618–26
Disc. closure. 1144
Roys, C. S.; George; Heim; Mayer. Disc. closure (A Cathode Ray Oscillograph for Observing 2 Waves. (Oct. 1935, p. 1095–1100) 271
Roys, C. S. Disc. 280

S

Sabbagh, E. M. Disc. 285
Sah, A. P-T. Complex Vectors in 3-Phase Circuits. 1356–64
Sah, A. P-T. Dyadic Algebra Applied to 3-Phase Circuits. 876–82
Sah, A. P-T. Disc. 1247
St. Clair, H. P. Disc. 193, 194, 197, 414, 1257
Scanlon, J. Leo. Membership Letter 1276
Scattergood, E. F. Disc. closure (Engineering Features of the Boulder Dam-Los Angeles Lines. May 1935, p. 494–512) 202, 282
Schenck, S. B. Disc. 1335
Schmidt, A., Jr.; Griffith. Disc. closure (A Static Thermionic Tube Frequency Changer. Oct. 1935, p. 1063–7) 407
Schreiber, Martin. Development of the All-Service Vehicle 236–40
Schuchard, E. A. Disc. 293
Schwartz, E. L.; George; Honaman; Lockrow. Neutralizing Transformer to Protect Power Station Communication. 524–9
Schwartz, E. L. Disc. 883
Scott, C. F. (Letter) Mechanical Development of Transformer by Westinghouse. 1403
Scott, C. F.; Chesney. Early History of the A-C System in America. *228–35
Scott, R. C. Disc. 895
Seelye, H. P. Modernization of Power Distribution Systems. 75–84
Disc. closure. 918
Seletsky, A. C. Amplification Loci of Resistance-Capacitance Coupled Amplifiers. 1364–71
Seletsky, A. C.; Sibila. Current and Voltage Loci in 3-Phase Delta-Delta Circuits. 476–9
Seyfert, S. S.; Hibshman; Bomberger. Synchronous Mechanical Rectifier-Inverter—II. 548–53
Disc. closure. 1245
Shanklin, G. B. Disc. 205, 397
Sharp, C. H. Disc. 332
Sheehan, J. E. Disc. 414
Shoults, D. R.; Crary; Lauder. Disc. 895
Shoults, D. R.; Crary; Lauder. Disc. closure (Pull-In Characteristics of Synchronous Motors. Dec. 1935, p. 1385–95) 898
Shuck, O. H. Electrical Measurement of Silk Thread Diameter. 991–6
Shutt, C. C. Disc. 897
Shutt, C. C.; Dawson. Disc. closure ("Angle Switching" of Synchronous Motors. Nov. 1935, p. 1191–5) 896
Sibila, K. F.; Seletsky. Current and Voltage Loci in 3-Phase Delta-Delta Circuits. 476–9
Siegfried, Victor. Disc. 1269
Siegfried, Victor; Morgan. Stray Load Loss Tests on Induction Machines—II. 493–7
Disc. closure. 1246
Silsbee, F. B. Disc. 1257
Silsbee, F. B.; Curtis. Disc. closure (Definitions of Power and Related Quantities. Apr. 1935, p. 394–404) 186
Singer, F. J.; Knowlton; Locke. Switchboards and Signaling Facilities of the Teletypewriter Exchange System. 1015–25
Sinks, A. T.; Trekell. Disc. 893
Skeata, W. F. Special Tests on Impulse Circuit Breakers. 710–17
Disc. and closure. 1257
Skeata, W. F. Disc. 194
Skeata, W. F.; Poitras; Kuehni. Disc. closure (Oil Circuit Breaker and Voltage Recovery Tests. Feb. 1935, p. 170–8) 269
Sleeper, H. P. Disc. 923
Slepian, Joseph. Disc. 191, 196, 828, 1256
Smith, G. F. Electrical Apparatus for Diesel Cars and Locomotives. 335–41
Smith, H. B. Disc. 184
Smith, J. J. Disc. 185, 818, 831, 884
Smith, L. G. Distribution Transformer Lightning Protection Practices. 47–53
Disc. closure. 914
Smith, L. G. Disc. 814, 816, 905, 910, 919
Smith, P. C. Disc. 167
Smith, R. M.; Goldsborough. A New Distance Ground Relay. 697–703
Disc. closure. 1256
Smith, R. M.; Harder; Lewis. Disc. 1252
Smith, W. A. Disc. 1143
Sommerman, G. M. L. Disc. 1141
Sorensen, R. W. Disc. 1150
Sorensen, R. W.; Hobson; Ramo. Disc. closure (The Sparkless Sphere Gap Voltmeter. June 1935, p. 651–6) 294
Sorensen, R. W.; Ramo. The Sparkless Sphere Gap Voltmeter—II. 444–7
Disc. closure. 1268
Southgate, G. T. Disc. closure (Vibratorily Commutated Station Conversion. Nov. 1935, p. 1213–21) 404
Spence, P. W.; Williams; Ferris; King. Effect of Electric Shock on the Heart. 498–515
Disc. closure. 1264
Sporn, Philip. Disc. 275, 915, 1253
Sporn, Philip; Gross. Lightning Arrester Economics. 84–93
Disc. closure. 817
Sprague, C. S. Disc. closure (The Production of Impulse Test Voltages. Oct. 1935, p. 1100–04) 272
Sprague, C. S. Disc. 273, 276
Spring, E. W.; Wyatt. Disc. closure (A Criterion of Quality of Cable Insulation. Apr. 1935, p. 417–21) 208
Stein, I. M. Disc. 1258
Steinman, D. B. (Letter) Registration of Engineers. 844
Stephens, H. O. Disc. 412
Stevenson, A. R., Jr.; Howard. Disc. closure (An Advanced Course in Engineering. March 1935, p. 265–8) 182
Stewart, E. C.; Heberlein; Pierce, Powers. Carrier Relaying and Rapid Reclosing at 110 Kv. 1120–9
Stickley, G. W. Disc. 1147, 1148, 1149
Storer, N. W. Disc. closure (The "Biway" System of Electric Platforms for Mass Transit. Dec. 1935, p. 1340–7) 824
Storer, N. W. Disc. 813, 824
Stout, M. B. Disc. closure (Analysis of Rectifier Filter Circuits. Sept. 1935, p. 977–84) 280
Sturm, R. G. Vibration of Cables and Dampers—I. 455–65
Disc. closure. 1147
Sturm, R. G. Vibration of Cables and Dampers—II. 673–88
Disc. closure. 1147
Sturtevant, P. G. Disc. 413
Suits, C. G. (Letter) Dissociation in Arc Welding. 561
Sunde, E. D. Currents and Potentials Along Leaky Ground Return Conductors. 1338–46
Sutherland, W. F. (Letter) The Moffat Process for Producing Steel. 217
Swope, Gerard. An Engineering View of and From Steinmetz. *572–4

T

Taylor, R. C. Disc. 885
Takei, Takeshi. The Electrochemical Industry in Japan. 252–4
Tarpley, H. I.; Doggett. Disc. closure (Power and Energy, Positive and Negative. Nov. 1935, p. 1204–9) 411
Teare, B. R.; Haggard; Conrad. Electrical Studies of Living Tissue 768–72
Teague, W. L. Disc. 399
Thicke, J. E.; Maco. Crossing the St. Lawrence With Unstressed Cable Lengths. 164–7
Thomas, W. A. Negative-Sequence Reactance of Synchronous Machines. 1378–85
Thomas, E. J.; Crawford. Disc. closure (Silicon Steel in Communication Equipment. Dec. 1935, p. 1348–53) 884
Thompson, Gordon. Disc. 1263
Tilles, Abe. Disc. closure (Spark Lag of the Sphere Gap. Aug. 1935, p. 868–76) 290
Tilles, Abe. Disc. 272, 282, 290, 291, 294
Torok, J. J. Disc. 1142
Towne, H. M. Disc. 814, 815
Tracy, G. F.; Wyss. Disc. closure (Split-Phase Starting of 3-Phase Motors. Oct. 1935, p. 1068–72) 285
Traver, O. C. Disc. 907
Traver, O. C.; Bancker. A Faster Carrier Pilot Relay System. 688–96
Travis, Irven. Disc. 897
Treat, Robert. Disc. 817, 891
Trekell, H. E.; Sinks. Disc. 893
Trickey, P. H. Analysis of the Shaded Pole Motor, An. 1007–14
Trickey, P. H. Induction Motor Resistance Ring Width. 144–50
Trickey, P. H. Disc. 811
Turner, H. E.; Muller. Modernization of Relay Systems. 56–62

U

Umansky, L. A. Disc. 169
Umansky, L. A.; Linville. Disc. closure (Speed Transients of D-C Rolling Mill Motors. Apr. 1935, p. 387–94) 172

V

Vaile, R. B., Jr.; Hobson. Disc. 273
Van Niekerk, A. Disc. 810, 894
Van Sickle, R. C. Disc. closure (Breaker Performance Studied by Cathode Ray Oscillograms. Feb. 1935, p. 178–84) 196
Van Sickle, R. C. Disc. 193
Vedder, E. H.; Evans. Disc. closure (Photoelectric Control of Resistance Type Metal Heaters. June 1935, p. 645–50) 190

Veinott, C. G. Disc. closure (Segregation of Losses in Single-Phase Induction Motors. Dec. 1935, p. 1302–6) 812
Veinott, C. G. Disc. 812
Vest, W. I., Jr. Disc. 197
Vinal, G. W. Disc. 190
Vogel, F. J. Disc. 402, 1272
Vogel, F. J.; James. Power Transformers for 287.5-Kv Service 438–44
Vogel, F. L. 816
von Dannenberg, C. O. (Letter) Calculating Power Factor in a 3-Phase Circuit 845
von Danneiberg, C. O. (Letter) Crossing the St. Lawrence With Unstressed Cable Lengths 939

W

Wagner, C. F. Parallel Inverter With Inductive Load 970–80
Wagner, C. F. (Letter) Voltage Regulation of Alternators 1046
Wagner, C. F. Disc. closure (Parallel Inverter With Resistance Load. Nov. 1935, p. 1127–35) 837
Wagner, W. C. Disc. 411
Waldorf, S. K. Disc. 919
Walker, G. H. Disc. 294
Walther, Lee. (Letter) Definition of "Inventing" 1155
Warner, R. G. Disc. 903
Warrington, A. R. Van C. Disc. 1255
Wascheck, G. Disc. 836
Webb, R. L. Membership Letter 1153
Webb, R. L.; Mans. Impedance Measurements on Underground Cables 359–65
Disc. closure 1139
Weber, Ernst. Disc. 828, 834, 903
Weber, Ernst; Kulman. Sinusoidal Traveling Wavings 245–51
Weil, W. S., Jr.; Miller. Operational Solution of A-C Machines 1191–1200
Weller, C. T. (Letter) Revised Sphere-Gap Spark-Over Voltages 1046
Weller, C. T. Disc. 1258
Weinheimer, C. M. Disc. 415
Wents, E. C. Disc. 1259
Werrea, C. O. Disc. 1259
Whitehead, J. B. Recent Progress in Dielectric Research 1180–5
Whitehead, J. B. Disc. ..207, 402, ..901, 1140, 1142, 1261, 1265, 1274
Wiesman, R. W. Disc. 178, 1244
Williams, C. C. The New Epoch in Engineering Education 132–6
Williams, C. C. Disc. 1151
Williams, C. S. Permanent Magnet Materials 19–23
Wilcox, H. M.; Leeds. Circuit Breakers for Boulder Dam Line .. 626–35
Disc. closure 1252
Williams, H. B.; Ferris; King; Spence. Effect of Electric Shock on the Heart 498–515
Disc. closure 1264
Withington, Sidney. Disc. 295
Wood, L. A. S. Better Visibility Needed on Highways at Night .. 614–18
Woodbridge, J. L. Disc. closure (Storage Battery Charging. May 1935, p. 516–25) 191
Wright, A. M. Disc. 295
Wright, R. H. Electrical Developments in the Steel Industry 1168–73
Wright, R. H. Disc. closure (Electric Power Equipment for Steel Plants. May 1935, p. 481–5) .. 170
Wyatt, K. S.; Spring. Disc. closure (A Criterion of Quality of Cable Insulation. Apr. 1935, p. 417–21) 208
Wyss, W. E.; Tracy. Disc. closure (Split Phase Starting of 3 Phase Motors. Oct. 1935, p. 1068–72) .. 285

Y

Yensen, T. D. Disc. 883, 884, 888
Yoder, C. P. Disc. 414
Young, F. C. Disc. 890

Z

Zubair, S. M. Disc. 277

Division III—News of AIEE Activities

Addresses Wanted, 126, 223, 319, 431, 567, 756, 851, 947, 1050, 1162, 1294
A-C System 50th Anniversary
(See Also Under "Technical Subject Index")
50th Anniversary of First A-C System in America 119
To Be Widely Celebrated 220
Analysis of "Electrical Engineering" Readers, An 559

B

Branch Meetings (See Meetings, Student Branch)
Branches (See Student Branches)
British Institution Offers Courtesies to AIEE 306
Budget, Institute, for 1936–37 1396
Bush, Vannevar, Awarded 1935 Lamme Medal 306

C

Chairmen Meet With President to Discuss Plans for Year's Committee Work 1277
Columbia University Scholarship Not Awarded (AIEE) 1395
Columbia University Offers EE Scholarship 213

D

Directors' Meetings (See Meetings, Directors)
Directors, Report of the Board of 795–808
District Meetings (See Meetings, District)

E

East Tennessee Section Organized 1153
Edison Medal (See Medal, Edison)
Executive Committee Meetings (See Meetings, Directors)

F

Fort Wayne, Kansas City, Philadelphia Sections Broaden Activities Programs 933
Future AIEE Meetings, 117, 212, 298, 419, 556, 748, 840, 928, 1042, 1154, 1278, 1390

G

Group of Institute Leaders Visits the South West, A. (Photo) 419

I

Institute Budget for 1936–37 1396

K

Kansas City, Philadelphia, Fort Wayne Sections Broaden Activities Programs 933
Kennelly, A. E., Awarded 1936 Mascart Medal 117
Kettering, C. F., Honored by General Motors Corp. 1398

L

Lamme Medal (See Medals, Lamme)

M

Medal, Edison, for 1935 Presented to Doctor Stillwell 300
Medals, Lamme
Awarded (1935) Vannevar Bush 306
Nominations (1936) Due Nov. 1 ..... 751, 936

MEETINGS, DIRECTORS:
Executive Committee, New York December 11, 1935 116
New York, January 27, 1936 299
Executive Committee, New York, March 9, 1936 417
New York, May 25, 1936 755
Pasadena, Calif., June 24, 1936 934
New York, August 4, 1936 1042
New York, October 20, 1936 1277

MEETINGS, DISTRICT:
North Eastern, New Haven, May 1936 To Meet 304
Meeting and Student Branch Convention 416
Meeting and Student Convention Held at New Haven 748
South West, Dallas, October 1936
At Dallas 838, 936
Airplane View of the Texas Centennial Central Exposition. (Photo) 960
Offers Attractive Program 1040
Skyline of Dallas, Texas. (Photo) 1041
Dallas Power and Light Company Generating Station. (Photo) 1042
Program Complete 1153
Meeting Program Enjoyed by 532 1394

MEETINGS, DISTRICT EXECUTIVE COMMITTEE
Middle Eastern 210
North Central 211, 1397
North Eastern 1279
Southern 120

MEETINGS, NATIONAL:
Summer Convention 1936
Plans Under Way at Los Angeles 210
Plans Progressing 304
Offers Vacation Trip Possibilities 418
San Diego Exposition Beckons Summer Convention Goers. (Photo) 437
At Pasadena, Calif. 554
This Month at Pasadena, Calif. 747
Well Attended 838
Successfully Held at Pasadena, Calif. .. 926
Officers, Delegates, and Members Hold Annual Conference 929
Six Technical Conferences Held 935
Technical Conferences Held 1043
Sports Winners 1043
Winter Convention 1936
Affords Technical and Social Opportunities 114
Fireboat "John J. Harvey." (Photo) .. 119
To be Reported in March Issue 211
Best Attended Since 1932 297
Candid Camera Studies (Photos) 305
Explanation of January 15 Disturbance on New York Edison System ... 307
Winter Convention 1937
Plans Progressing 1277
Features 5-Day Program 1388

MEETINGS, STUDENT BRANCH
Middle Eastern District Branch Chairmen and Counselors 119
North Central District 751
North Eastern District Branch 416, 748
South West District, Student Conference Held by 838
Southern District 750

Member-for-Life List, Additions to..... 756
Members Invited to ASCE Sessions, Institute..... 1154
Members Planning Trips Abroad, to Institute..... 420
Membership Activities. Lee.....945–5
Membership Applications Show Increase.. 420
Membership Letter. (Fields)..... 1388
Membership Letter. (Kositzky)..... 1043
Membership Letters. (Lee), 116, 213, 300, 421, 558, 751, 839, 930
Membership Letter. (Scanlon)..... 1276
Membership Letter. (Webb)..... 1153
Membership, Transfers and Elections, 126, 222, 317, 429, 566, 756, 850, 946, 1050, 1162, 1294, 1407
Message From the President. (See Technical Subject Index)

N

New York Section
Power Group and Other Group Activities of the Institute's..... 421
Review Courses Offered..... 1398
To Repeat Review Courses..... 938

O

Officers (AIEE) to be Nominated Soon.. 117
Officers and Committees (1936–37).
Branches..... 1054
District..... 1055
National..... 1051
Sections..... 1053
Officers, Delegates, and Members Hold Annual Conference at Pasadena, Calif..... 929
(Officers) Nominating Committee Announces (1936) Candidates..... 306
(Officers) Nomination of AIEE Officers for 1937 Election; Members Invited to Submit Suggestions by Dec. 15.... 1278

P

Philadelphia, Fort Wayne, Kansas City Sections Broaden Activities Programs..... 933
Power Group and Other Group Activities of the Institute's New York Section... 421
Prize Awards Announced for 1935 Papers..... 754
Additional Awards for 1935..... 839

R

Report of the Board of Directors.....795–808
Rice, Edwin Wilbur, Jr., In Memoriam..*118

S

Schenectady, N. Y., Section Hears Tenth Steinmetz Memorial Lecture. (Photo)..... 755
Section and Branch Activities Annual Report for 1935–36..... 752
(Society of Naval Architects and Marine Engineers) AIEE Members Invited to Attend Naval Sessions..... 1042
STANDARDS
Automatic Station Standards, Revision of..... 844
Fuse Standards Report Approved..... 844
Lightning Arrester Standards, New... 844
Oil Circuit Breaker Standards, Revision of..... 844
Rotating Electrical Machinery Standards, New..... 843
Sphere-Gap Spark-Over Voltages, Revised..... 844
Test Code Proposed for Instruments and Measurements..... 844
Stillwell, Doctor, Presented 1935 Edison Medal..... 300
(Student), Branch Activities Annual Report for 1935–36, Section and..... 752
Student Branch Meetings (See Meetings, Student Branch)
Swasey, Ambrose, Awarded Hoover Medal..... 1278

T

Technical Conferences Held During Summer Convention at Pasadena, 935, 1043
Thompson, Elihu, Honored by Welding Society..... 1279

W

Weston, Edward, in Memoriam.....*1279

Division IV—News of Non-Institute Activities

Air Conditioning Standards Adopted..... 936
American Engineering Council
Activities of National Resources Committee..... 423
Annual Meeting Scheduled for January 14–16, 1937..... 1285
Engineers' Relations to Creating Employment..... 843
Exhibit at World Power Conference. (Photo)..... 1280
Governmental Reorganization..... 1044
Plans for 1936 Divide Committees Into 4 Groups..... 309
Rural Electrification..... 423
Second Report of the Science Advisory Board..... 121
Sixteenth Annual Meeting Held in Washington, D.C..... 215
Survey of Engineers Statistics Published..... 939
Upstream Engineering Conference.1044, 1285
Who's Who in Engineering..... 1045
American Institute of Mining and Metallurgical Engineers
AIME Meetings..... 1154
American Society for Testing Materials
Adopts New Tentative Standards..... 1154
Annual Meeting..... 559
Awards Dudley Medal..... 937
Committee on Insulating Materials Meets..... 840
Elects Officers..... 843
To Meet in Pittsburgh..... 213
American Society of Civil Engineers
Elects Officers..... 309
Institute Members Invited to Sessions..... 1154
Nominates 1937 Officers..... 1399
American Society of Mechanical Engineers
Junior Award of ASME..... 212
Nominates 1937 Candidates..... 938
To Meet November 30–December 4.. 1285
American Standards Association
Elects Officers..... 309
Industrial Vacuum Tubes Being Standardized..... 938
Standards for Rotating Machinery.... 422
American Transit Association Annual Convention..... 419
American Welding Society Honors Elihu Thompson..... 1279
Army Appointments, Examination for... 1043
Association of Iron and Steel Electrical Engineers
Annual Convention..... 839
Changes Name..... 1043
Elects Director..... 215
Spring Engineering Conference..... 308

B

Bibliography on Vibration in Electrical Conductors..... 213
Bonneville Project(Photo)..... 515
Boulder Dam, First Water Through Operating Channel at. (Photo).... 308

C

Cable, 220-Kv Underground..... 213
Coffin Award, Idaho Power Company Wins..... 938
Communication Library for Canada, Valuable..... 938
(Crosley Radio Corporation) Lighting Improved in Industrial Plant. (Photo)..... 1099

E

Earth's Magnetism, Pamphlet on the.... 213
Edison Electric Institute
Edison "Living Memorial" Endorsed.. 840
New Officers..... 843
Edison's Voice to Be Heard at Patent Centennial..... 1278
Electrical Progress. (Chart)..... 1129
Electrolytic Aluminum, Fiftieth Anniversary of..... 419
Engineering Foundation
Annual Report Issued..... 1401
New Appointments to Alloys of Iron Committee..... 216
Officers Elected at Annual Meeting.... 1286
Platform Adopted..... 423
Welding Research Subcommittee Meets..... 1044
Engineering Society of Detroit Organized..... 559
Engineering Societies Library
Annual Report Issued..... 1402
Engineers' Council for Professional Development
Accrediting of Colleges Begun..... 212
Considers Guide for Student Selection..... 120
Holds Fourth Annual Meeting—Accredits 135 Curricula of 35 Engineering Schools..... 1280
Junior Engineers of Providence Organize..... 839
Promotes Vocational Guidance..... 936
Receives Grant From Carnegie Foundation..... 1280
Report of Committee on Professional Recognition Makes Far-Reaching Proposals..... 1390
Seeks Uniformity in Engineering Degrees..... 750
Third Annual Report Published..... 422
Eta Kappa Nu to Recognize Young Engineers..... 306
Examination for Naval Appointments.... 938

F

Fritz, John, Medal for 1937 Awarded A. N. Talbot.....

G

(Gaseous-Conductor Lamp) New Lamp Produces Germicidal Rays. (Photo)..... 925
Graduate Course Offered in Illuminating Engineering..... 1043
"Grandfather" Clause in N.Y. License Law Expires Soon..... 1279
Great Lakes Exposition, Cleveland, Ohio, 1936
Marine Way at Great Lakes Exposition in Cleveland. (Photo)..... 937

H

Hammond, John Hays, Noted Engineer, Dies..... 839
"Handbook of Chemistry and Physics".. 1399
Hell Gate, 132-Kv Cable Terminals at. (Photo)..... 117
Hoover Medal Awarded to Ambrose Swasey..... 1278

I

Idaho Power Company Wins Coffin Award..... 938
Illuminating Engineering, Graduate Work Offered in..... 1043

Illuminating Engineering Society, Annual Convention of 938
Industrial Notes, 128, 224, 320, 432, 568, 852, 947, 1056, 1164, 1296
Industrial Vacuum Tubes Being Standardised by ASA 938
International Committee on Illumination U. S. National Committee Meets 118
International Congress on Testing Materials, Second 1153

J

Junior Engineers of Providence Organise 839

K

Kettering, C. F., Receives 1936 Washington Award 213
Kimball, Dean, of Cornell Retires 840

L

Lafayette (Univ.) Seventieth Anniversary of Engineering at 419
Lamp Produces Germicidal Rays, New. (Photo) 925
(Lewis, Warren K.) Perkin Medal Presented 212
Library (See Engineering Societies Library)
License Law (N. Y.) Expires Soon, "Grandfather" Clause in 1279
Lighting Improved in Industrial Plant. (Photo) 1099
Lightning Reference Book Canvass Continued 120
Literature, Engineering, 127, 223, 319, 431, 567, 851, 947, 1055, 1163, 1295, 1407
Louisiana Engineering Society to Meet ... 117
Low, F. R., Editor and Engineer Dead at 75 214

M

Manufacturing Leads in Absorbing Unemployed 937
Maps on Electric Utilities Available 420
Marine Experts, International Meeting of 561
Mascart Medal (1936) Awarded to Past-President Kennelly 117
Mead, Elwood, Reclamation Commissioner Dead 308
Medal, John Fritz, for 1937 Awarded A. N. Talbot 1398
Medal, Hoover, Awarded to Ambrose Swasey 1278
Medal, Mascart (1936), Awarded to Past-President Kennelly 117
Medal, Perkin, Presented to W. K. Lewis. 212
Medal, Gaston Plante
To Be Established 213
To Be Awarded June 1937 1155
Mercury Lamps Being Developed, New. (Photo) 560
Michigan College of Mining and Technology Holds Semicentennial Celebration 1153
Midwest Power Conference to be Held April 20–23 ..... 309, 423
Mt. Palomar Telescope, Model of 200-Inch. (Photo) 1282

N

National Electrical Manufacturers Assn.
Publishes Joint Report on Radio Noise 420
Standards for Power Switching Equipment 215
National Power Show 843
National Research Council
Committee on Insulation to Meet 840
Electrical Insulation Is Subject of Continued Study 1395
Engineering and Industrial Research Division Holds Annual Meeting 937
Naval Appointments, Examination for ... 938
(N. Y. Edison Co.) Waterside Station to Be Modernized 308
New York Museum of Science and Industry in New Quarters 309

P

Papers Solicited on D-C Stray Load Losses 559
Patent Centennial, Edison's Voice to Be Heard at 1278
Perkin Medal Presented to W. K. Lewis 212
Plante, Gaston, Medal
To Be Established 213
To Be Awarded June 1937 1154

Q

"Queen Mary," After Turbogenerator Room in the Liner. (Photo) 842

R

Rackham Engineering Foundation 937
RCA Issues "Review." 1043
Rees, Gen. R.I., ECPD Vice-Chairman, Dies 938
Refrigerating Machinery Standards Adopted 118

S

San Francisco-Oakland Bay Bridge, Sodium Lamps Used on. (Photo) ... 1300
Schenectady's Half Century of Electrical Progress 842
Scholarship, Columbia University Offers E.E. 213
Shovel Handles 50 Tons at One Scoop, Electric. (Photo) 214
Sign, Mammoth Electric 423
(SPEE) Joint Summer Session on Economics Planned 560
Society Heads, A Notable Gathering of. (Photo) 211
Sodium Lamps Used on San Francisco-Oakland Bay Bridge. (Photo) 1300
Sound Projector System Has 10,000-Watt Output. (Photo) 1278
Standards (See American Standards Assn.)
(Standards) The Application of Statistical Methods to Industrial Standardisation and Quality Control 560
Steinmetz Memorial Lecture, AIEE Schenectady, N. Y., Section Hears Tenth. (Photo) 755
Stoughton, Bradley, Becomes Dean of Engineering 840
Talbot, A. N. Awarded John Frita Medal for 1937 1398

T

Telescope, Model of 200-Inch Mt. Palomar. (Photo) 1282
Tesla Coil to be Exhibited at Engineers' Show. (Photo) 422
Texas Centennial Central Exposition Photo 749
Power Supply for Exposition. (Photo) 1154
Texas Technological College Sponsors Annual Engineers' Show 422
Turbogenerator Room in the Liner "Queen Mary," After. (Photo) 842

U

Union Pacific Railroad, Steam, Steam-Electric Locomotive for 1399
United Engineering Trustees, Inc.
Annual Report Issued 1400
Election of Officers 1399
Joint Engineering Organisations 1399

V

Vibration in Electrical Conductors, Bibliography on 213

W

(Ward, G. C.) Monument in Honor of Engineer Dedicated by Utility Company 1156
Washington Award for 1936 Goes to C. F. Kettering 213
Watt Bicentennial to Be Celebrated 118
(Western Society of Engineers) Graduate Courses for Chicago Engineers 1399
Westinghouse Company Celebrates 50th Anniversary 214
(Wiley, Brent) Iron and Steel Electrical Engineers Elect Director 215
Wishon, A. G., Electrical Pioneer, Dies 938
World Power Conference. (Third) 1045
World Power Conference, AEC Exhibit at. (Photo) 1280
World Power Conference to Be Held in Washington 560
Conference to Prevent War, A 1219

Y

Year Book, 1936, to Be Issued Soon 21

Division V—Biographical Index

Includes All Personal and Obituary Items.

Abbott, W. L. 219
Adams, C. A. *1288
Adams, E. G. 1160
Alsaker, Alfred 1161
Ambrose, P. J. 1161
Anderson, B. T. 1049
Anderson, C. H. 946
Anderson, Clare 125
Anderson, D. S. 428
Anderson, William 221
Andrese, F. V. 1292
Andree, W. A. 848
Andry, P. L., Jr. 220
Armbrust, G. M. *1289
Armstrong, James Robert Charlton 849
Atkinson, E. S. 945
Auty, Clarence 945

B

Baird, John 428
Baker, P. E. 220
Baker, W. R. G. 219
Ball, F. L. 220, 429
Barclay, R. H. 944
Barnes, H. H., Jr. 315, 428
Barnett, H. G. 1293
Barrett, S. K. 1404
Barrington, Frederick Herbert 1294
Beall, M. F. 944
Beaumont, Leonard 944
Bechlam, A. W. 565
Becker, Alex 1293
Bedell, Frederick 1047
Beljavsky, A. G. 427
Bell, C. E. 220
Bellaschi, P. L. 1292
Bender, L. B. 1160
Benner, P. E. 946
Beran, Theodore 850
Berg, Eskil 221
Berkley, H. W. 125
Berry, W. J. 124
Bertolacci, R. L. 1293
Bibbins, James Rowland 317
Biele, R. J. 1048
Blackwell, H. C. 943
Blackwell, Otto Bernard 311, *841
Blaisdell, Leonard Tibbetts 312, *841
Blanchard, Charles R. 125
Blankenbuehler, J. H. 1049
Bliss, F. W. 943
Boissonnault, F. L. 1048
Botterill, T. L. 1160
Bouquin, H. F. 1049
Bouvier, G. A. 944
Boyce, F. G. 314
Brace, G. A. 945
Braley, H. D. *1048
Breitwieser, C. J. 124
Brinckerhoff, H. F. 945
Brodie, John Mollison 125
Broe, Edgar Peter 317
Broekhuijsen, W. C. 565
Bronaugh, Joseph 1293
Brooks, W. W. 1049
Brown, A. D. 427

Note—An asterisk (*) before a page number denotes publication of individual's picture on that page.

Brown, C. A. 1161
Brune, Otto 124
Bryant, W. L., Jr 1049
Bucher, G. H. *1292
Buck, H. L. 565
Buckley, O. E. 220
Bush, Vannevar *313, 944
Butler, Marcus Bayard, Jr. 565

C

Cain, B. M. 945
Cake, H. H. 428
Caldwell, O. H. 124, 944
Calvert, J. F. 1160
Camilli, Guglielmo 428
Campbell, G. A. 122
Capon, A. E. 125
Carlson, E. L. 1161
Carpenter, H. V. *1159
Carr, A. V. 1049
Cater, Clinton 1160
Caton, E. V. 565
Champe, Willard 218
Chanon, H. J. 428
Charlesworth, H. P. 428, *1157
Chubbuck, L. B. *943
Cisler, W. L. 848
Cissna, V. J. 1160
Clark, W. N. 124
Clifford, H. E. 563
Clothier, G. W. 1161
Cobban, R. J. 944
Cogswell, Burnham 125
Conlon, W. S. 847
Connell, L. H. 1293
Coop, E. R. 565
Cooper, W. T. 1161
Corbett, L. J. 1160
Cornell, E. S. *1048
Crawford, M. T. 123
Creim, B. W. 848
Crellin, E. A. 428
Crippen, R. P. 1292
Cromwell, P. C. 1406
Crozier, H. W. 428
Cunningham, Allan 850
Cunningham, A. J. 945
Cunningham, H. C. 1293
Currie, Neil, Jr. 315
Curtis, Kenneth Livermore 429
Curtner, D. L. 1049
Cushing, H. M. *942

D

Dater, A. W. 1048
Dates, H. B. 123
Davis, Delamore Leon 566
Davis, J. A., Jr. 429, 565
Davison, William John Melrose 316
Day, H. B. 1293
Day, Irving Frederick 850
Dean, H. C. *1291
De Boer, D. J. 1406
Delack, Burton Lewis 849
Delagrange, C. R. 944
Dewhurst, J. A. 315
Diehl, S. C. 1293
Dieringer, William Herbert 1294
Diestler, Edwin Andrew 221
Doherty, R. E. 426
Dow, Alex *846, 1049, 1406
Doying, William Albert 1294
Drake, Herbert William 565
Dring, G. S. 945
Dubinski, Leo 945
Dudley, Wray *1291
Dulin, W. S. G. 124
Dunn, Kingsley G. 850
Dyer, G. A. 315
Dyer, J. E. 428

E

Eaton, G. O. 945
Edwards, J. H. *1291
Eggleston, L. A. 944
Eide, Randolph 124
Eighmy, L. W., Jr. 944
Eliestad, I. M. 944
Ellis, Stuart Gunther 316
Elmore, D. R. 220
Ely, William Grosvenor, Jr. 946
Engleheart, Paul 849
Ensminger, W. W. 220
Ensor, J. S. 946, 1161
Eschbols, O. H. 1049
Espenschied, Lloyd *941

F

Falkovich, O. C. 1160
Farmer, A. C. 1292
Farmer, F. M. *1157, 1292
Farnham, S. B. 1049
Faron, F. A. 315
Farrer, H. E. 428
Faust, C. A. 427
Fay, G. C. 125
Fechheimer, C. J. 1405
Fellman, Marvin Nathan 126
Ferguson, L. A. *219
Ferguson, Samuel 943
Fernald, J. M. *1404
Fett, G. H. 220
Fiedler, G. J. 220
Filman, P. T. 428
Fink, L. R. 848
Fisher, H. W. 123
Fisken, J. B. 123
Fitzgerald, Thomas 124
Fleming, D. A. 428
Fletcher, Harvey 220
Folan, Harrison G. 429
Foote, J. H. *563
Francis, J. S. 1160
Fraser, William Hugh Ross 1162
Frenzel, E. E. 1293
Frigon, Augustin 122, 1292
Frits, L. J. 946
Fry, H. H. 945
Fryer, J. C. 1293
Fukunaka, Sataro 125
Fuller, Harry Williams 1161
Fullerton, D. P. 944
Funk, N. E. *1158

G

Gaby, F. A. 564
Gale, L. G. 428
Gardner, F. V. 1049
Gear, H. B. *218
Geiger, D. G. 942
Gherardi, Bancroft 941
Gibson, N. R. 945
Goll, W. S. 314
Goodman, L. S. 847
Gordon, H. L. 220
Gossler, P. G. 564
Gowing, M. R. 1406
Graham, W. P. *1404
Grant, R. H. 1049
Graf, R. J. *1159
Gray, W. T., Jr. 124
Green, E. L. 945
Greenfield, E. W. 123
Greenland, S. W. 426
Gregg, N. L., Jr. 125
Gregory, C. N. 315
Greidanus, S. C. 945
Griffith, L. A. 1292
Grobler, P. S. 125
Grow, L. M. 1161
Guinther, G. L. 944

H

Hale, William King 1162
Hall, W. B. 314
Hallar, K. E. V. 945
Hamilton, J. L. *1290
Hardie, J. B. 945
Harding, Charles Francis 311, *841
Harding, William Alfred 221
Harrap, G. V. 944
Harrely, P. E. 941
Harrison, L. S. 315
Harry, W. R. 1160
Hart, G. W. 944
Hart, Harry U. 566
Harvey, Francis Rosengrave 429
Harvey, G. C. 944
Harvey, J. L. *1047
Hausmann, Erich 123
Hayes, M. Van V. 945
Hayes, Stephen Q. 1294
Healey, Francis Robert 566
Heard, B. E. 1049
Hebbert, Charles Edwin 849
Heibel, J. D. 1161
Heller, Gabriel 220
Hellmund, R. E. 428, 846
Helmsley, S. H. 1292
Henline, H. H. 1293
Herzenberg, Alfred 847
Hibbeler, A. F. 125
Hierath, D. C. 945
Hill, H. O. 565
Hill, Halbert Paul 849
Hill, Nicholas Snowden, Jr. 942, 1293
Hillebrand, William Arthur 1050
Hobart, H. M. *1290
Hobson, J. E. 944
Hodgkinson, Francis 426
Hoeke, F. A. 125
Holland, W. E. 219
Hoover, Herbert 565
Hopkins, Cleveland 944
Hopper, A. L. 1293
Horning, H. H. 565
Horton, B. D. 1049
Hough, W. R. 942
Houston, H. H. 1293
Howell, A. H. 848
Huang, Pienchun 850
Hull, B. D. 564
Hunt, J. H. 563, 943
Hutchins, C. M. 124

I

Iriah, C. V. 429
Israel, Joseph David 1162

J

Jackson, E. S., Jr. 220
Jackson, J. G. 124
Jackson, R. C. 945
Jacobus, D. S. *1404
Jarvis, K. W. 943
Jewett, F. B. *563, 1049
Jogoese, M. G. 1161
Johanson, E. A. 125
Johnson, Francis Ellis *1047, 1160
Johnson, R. L. 945
Jolliffe, C. B. *1288
Jones, Hamilton McRary 1161
Jones, Kenneth Burr 429
Jones, T. B. 1160
Jones, W. G. 1160

K

Karapetoff, Vladimir 428
Karpov, A. V. 1406
Kaul, R. D. 220
Kelley, E. J. 848
Kelley, W. G. 1049
Kellogg, C. W. *941
Kelly, M. J. 220
Kennedy, Alexander, Jr. *1290
Kennelly, A. E. *123
Kettering, C. F. *218, 564
Killian, J. T. *1047
King, G. L. 945
Kinsinger, W. W. 124
Kintner, Samuel Montgomery 1161, 1293
Knabe, T. A. 1160
Knox, Francis Henry 317
Kobak, Edgar 427
Koch, Richard 221
Koenig, H. C. *1291
Koerner, C. T. 1293
Kopper, J. M., III 124
Kositsky, G. A. *1158
Kouwenhoven, W. B. *1157
Kron, Gabriel 941
Krug, Frederick *1405
Kurszka, J. F. 125
Kuhn, R. J. 848
Kuyper, W. W. 945

L

LaMoree, C. D. 429
Land, Frank 316
Lawton, Edwin Franklin 1294
Lee, E. S. *1158
Leeds, M. E. 943
Lehmann, G. P. 1160
Lents, E. T. 1049
Levine, S. J. 124
Levy, F. E. 220
Lewis, Eric 124
Lewis, F. A. *313
Lewis, F. W. 946
Lewis, W. W. 942
Lincoln, J. F. 124
Lindquist, R. G. 124
Linklater, T. B. 945
Liversidge, H. P. 427
Lloyd, T. C. 1159
Lobeck, Adolf John 1162
Loew, E. A. 426
Love, E. R. 1049
Ludwig, L. R. 846
Lumley, C. S. 1160
Lundy, A. D. 123
Lynch, Edward 220
Lynn, Scott 221

M

MacCalla, Clifford Sherron 316
MacCutcheon, Alexander Morton 1406
311, *841
MacDonald, Robert 1406
MacDonald, W. R., Jr. 315
MacNeill, J. B. 220
Macoy, E. W. 945
Macy, R. G. 124
Manfield, W. A. 124
Manfield, W. H. 124
Mars, Nick 945
Marsden, H. M. 427
Marshall, A. C. 942
Martinson, E. O. 945
Mason, H. E. 945
Mason, R. C. *1290
Masters, M. H. 944
Matthews, W. J. 945
Maurer, P. H. 945
Mayo, C. A. 220
McClellan, William 123
McCreary, H. J. 565
McEachron, Karl Boyer 312, *841
McKearin, J. P. *1290
McLennan, A. J. 945
McMains, T. F. 123
McMillan, F. O. 1048
McMynn, J. D. 124
McNaughton, A. G. L. 124
McNaughton, E. F. 315
McWhorten, W. A., Jr. 1406
Mead, D. W. *314, 1406
Mead, F. B. 1293
Meador, B. F. 1161
Menger, F. B. 429
Merchant, W. J. 1160
Merrill, Meldon Humphrey 848
Merrill, O. C. 1291
Merwin, L. T. 426
Methfessel, C. W. 1049
Meyer, E. B. 847
Meyer, Julius 850
Mier, C. W. 564
Millard, Jesse B. 1294
Miller, Elam 1162
Miller, J. P. 945
Miller, R. D. *1405
Miller, W. J. 1159
Mills, G. A. 427
Mitchell, Claude W. 221

Mitchell, O. S. 220
Moench, H. A. 124
Montsinger, V. M. *1288
Moore, Daniel McFarlan 849
Moravec, James E. 566
Morris, L. P. 1160
Morrow, Bryce Eugene 220
Morrow, L. W. W. *1404
Morse, Henry Adams 850
Morton, R. M. 1047
Munson, S. H. 1293
Murbach, J. F. 429
Murphy, George Robert 850
Murphy, L. K. 1160

N

Nartker, L. J. 1406
Nelson, H. R. 944
Nevitt, C. J. 944
Nichols, Louis Charles 1406
Nigh, E. R. 1161
Noeggerath, Jakob Emil 316
Noyes, M. E. 944

O

Odessey, P. H. *943
Oliver, George W. 429
Olmsted, L. M. *942
Olson, A. G. 1292
Ormson, B. H. 945
Orr, Robert Ellis 1294
Osborne, H. S. *1288
Ost, P. J. 847
Osterlund, J. A. 428
Oswald, T. D. 945

P

Pack, R. F. 124
Palmrose, E. W. 124
Parker, J. C. 314
Parker, Newell 125
Parrack, V. R. 1293
Pattison, Hugh 1161
Paxton, E. B. 848
Pennell, W. O. 564
Peterson, T. F. *1405
Phillips, F. R. 124
Plummer, C. E. 428
Porter, R. W. 848
Potter, F. M. 945
Powel, Charles Alfred 312, *841
Pretty, H. R. 1293
Prevost, Maurice 944
Price, C. A. *943
Prideaux, C. F. 944
Pugsley, D. W. 1048
Putman, H. V. 428
Putnam, R. C. 122

Q

Quigley, F. P. 123
Quigley, G. L. 945
Quinn, Edward A. 429

R

Rankin, R. H. 1293
Rauscher, Paul Frank 317
Reynolds, J. H. 848
Rice, C. N. 428
Rice, Edwin Wilbur, Jr. *118, 125
Richardson, W. M. 1293
Richey, Albert Sutton 946
Rickwood, H. A. 1293
Ringer, R. L., Jr. 945
Robert, L. W. 426
Roberts, F. A. 848
Robinson, Almon 566
Rockwell, E. W. 428
Rockwood, John A. 1050
Roddy, F. T. 946
Roesch, R. E. 1049
Roeser, Haskell 945
Rogers, Clarence Eliams 312, *841
Rogers, H. W. *1289
Rogers, T. A. *1047
Rohman, H. D. 944
Rorty, Malcolm Churchill 315
Rosenquest, Eugene H. 316
Ross, P. M. 428
Ross, R. H. 945
Ross, Robert A. 1406
Rost, H. F. 944
Royden, G. T. 124
Ruckgauer, A. E. 1293
Rudd, W. C. 943

S

Sachs, Joseph 123
Sampio, L. F. 944
Sarnoff, David 426
Sasscer, C. D. 428
Sauberman, N. H. 945
Scattergood, E. F. *846
Schell, D. H. 220
Schnure, F. O. *1289
Schoenfeld, E. H. 124
Schwager, A. G. 219
Scott, C. F. 565
Shaad, George Carl 946
Sheals, V. A. 428
Shields, C. I. 945
Shimek, E. J. 945
Shores, R. B. 945
Silva, A. D. 1160
Silverman, Daniel 1292
Sinclair, C. T. 848
Sine, E. R. 946
Singleton, L. D. 427
Sirnit, John A. 1050
Slichter, Walter Irvine, 313, 428, 1293
Smith, F. W. 315
Smith, M. W. *847
Smith, Robert Cowl 125
Smith, Willard Mortimer 221
Snediker, J. B. 944
Snell, F. E. 124
Sorensen, Royal Wasson 313, *841, *1159
Sorensen, L. M. 124
Sorieri, M. A. 124
Soutter, Robert, Jr. 124
Speck, R. J. 565
Spencer, Thomas 849
Spooner, Thomas 944
Steen, H. N. 1160
Stein, I. M. *1157
Steindorf, H. A. 1049
Steinmayer, A. G. 847
Stephens, C. E. 428
Stephenson, W. B. 564
Stevens, Alexander Chilson 311, *841
Stevens, W. C. 220
Stewart, P. B. 565
Stillwell, L. B. *122
Stoddard, R. N. *846
Stokan, R. S. 125
Storer, N. W. *1405
Streamer, A. C. 1292
Stresen-Reuter, J. H. 124
Strieby, M. E. *941
Strothman, R. A. 220
Stryker, C. E. 426
Sutton, L. V. 564
Swasey, Ambrose *1288
Swering, J. B. 427
Sykes, Wilfred 220

T

Tadlock, W. L. 1161
Talama, Clarence 428
Tankovich, J. G. 125
Tasker, H. G. 945
Terrell, P. A. 1293
Thayer, Harry Bates 1162
Thomas, Carroll 1050
Thoresen, P. B. 220
Thorn, C. S. 123
Thornton, Norman 944
Tilles, Abe *1048
Timbie, W. H. *1158
Town, G. R. 1160
Tremaine, A. Raymond 125
Tucker, J. O. 1406
Tudbury, C. A. 1292
Turner, Harry Winthrop 316
Tyler, E. M. 1293
Tyler, Earle Lamar 946

U

Uffelman, W. R. 1293
Ulm, L. G. 1161
Urban, F. O. 124

V

Vaile, R. B., Jr. 1293
Van Gelder, H. M. 848
Van Vessem, G. E. 945
Van Wyck Philip Van Rensselaer 221
Vecera, Hugo 1050
Ver Planck, D. W. 1160
Vickers, Herbert 563
Vilstrup, Asger *563

W

Warner, R. W. 1049
Warren, P. L. 1406
Watkins-Ball, C. G. 124
Watkins, W. W. 944
Watson, A. E. 847
Webber, William 1160
Weber, F. D. 565
Webster, E. S. 943
Weesner, R. J. 124
Wellwood, A. R. 219
West, John 124
Weston, Edward 1049
White, J. W. *1405
White, William Fullerton 946
Whitehead, J. B. 428
Whitsit, L. A. 428
Wickenden, W. E. 123
Wiewall, Miguel, Jr. 124
Williams, A. J., Jr. 220
Williams, A. R. 1160
Williams, P. H. 1293
Williams, R. E. 315
Wing, L. S. 1292
Winne, H. A. 428
Woodbridge, Jonathan Edwards 221
Woodbury, Edward 944
Woodrow, William 566
Worel, Frank 1292
Wright, G. I. *1289
Wright, J. D. 565
Wyatt, F. D. 1160
Wyatt, R. M. 1293

Y

Yagodkin, Vladimir 1293
Yerxa, Russell Armstrong 1050

Z

Ziev, Meyer 1160

Preface

This, the fifty-fifth volume of the TRANSACTIONS of the American Institute of Electrical Engineers, contains the entire text content of the 12 monthly issues of ELECTRICAL ENGINEERING published during 1936. This is the third in a new series of annual volumes initiated under the Institute's unified publication plan which became effective January 1, 1934.

Discussions of technical papers, printed in ELECTRICAL ENGINEERING from month to month as they become available, are thoroughly correlated in the comprehensive multi-entry annual reference index which begins on page 1408 of this volume. A reference to any of the several subject entries for any technical paper will lead directly to any discussion on that paper that may have been published during 1936. In this connection it is of importance to note: first, that, of 1935 papers, this volume contains all discussions published after December 1935; second, that, likewise, the discussion of many of the later 1936 papers will appear in the 1937 TRANSACTIONS by virtue of publication in ELECTRICAL ENGINEERING subsequent to December 1936.

Errata

1. Page 162, left-hand column, line 10—first symbol should be a_1.

2. Page 162—first term inside brackets of equation 21 should be $b_1 i_0$.

3. Page 162—last term in second line of equation 24 should be $p^2 a_{12} i_{2_0}$.

4. Page 164—first term of last equation in left-hand column should be $L_2 p^2$.

5. Page 188, first equation in right-hand column—the radical should read:

$$\sqrt{\frac{\rho\ 10^9}{f\mu}}$$

6. Page 378—third equation from top in right-hand column for first diagram of figure 2 should read:

$$\left.\frac{dE_2}{dt}\right|_{0 < t < \Delta t} = \infty$$

7. Page 533, lower half of right-hand column—paragraphs numbered 3, 4, 5, and 6, should be unnumbered and the first word "That" of each paragraph should be deleted; in other words, there are only 2 boundary conditions.

8. Page 660, figure 1—current transformer connections to relays 2 and 3 should be interchanged.

9. Page 663, third from last line in right-hand column should read: "affected by operating conditions and arc resistance."

10. Page 762—heading for table II should read: "Table II—Structures and Atomic Masses of Stable Nuclei"; see "letter to the editor," page 1156.

11. Page 877—equation 3 should read as follows:

$$\bar{\mathbf{Z}} = \left\{ \begin{array}{r} z_{aa}\mathbf{ii} + z_{ab}\mathbf{ij} + z_{ac}\mathbf{ik} \\ + z_{ba}\mathbf{ji} + z_{bb}\mathbf{jj} + z_{bc}\mathbf{jk} \\ + z_{ca}\mathbf{ki} + z_{cb}\mathbf{kj} + z_{cc}\mathbf{kk} \end{array} \right\}$$

12. Page 881—line 10 in right-hand column should read: 'the words "down" and "up" into "right" and.'

13. Page 881, equation 28*d*—all "j's" should be "j^2's"; all vertical double bars should be single bars.

14. Page 882, equations 31 should read:

$$\begin{aligned} \mathbf{E}_a &= \bar{\mathbf{Z}}_{aa} \cdot \mathbf{I}_a + \bar{\mathbf{Z}}_{av} \cdot \mathbf{I}_v \\ 0 &= \bar{\mathbf{Z}}_{va} \cdot \mathbf{I}_a + \bar{\mathbf{Z}}_{vv} \cdot \mathbf{I}_v \end{aligned}$$

15. Pages 1018–19—diagrams should be interchanged.

16. Page 1209—extreme right-hand member of equation 14 should be $I_{31} Z_1 + I_{32} Z_2$.